

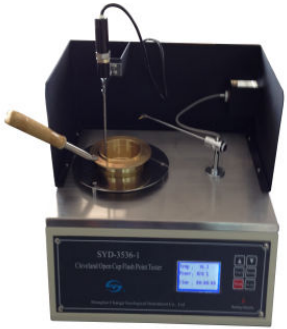




Petroleum Products Catalogue

Shape	Name	Item	Parameters	Functions	Standards
	Open Cup Flash Point Tester	SYD-267	<ol style="list-style-type: none"> 1. Power supply: AC 220 V±10%, 50 Hz; 2. Outer crucible: <ol style="list-style-type: none"> (1) Material: 0.3 carbon steel (2) Inner diameter of upper opening: Φ100±5 mm (3) Height: 50±5 mm (4) Inner diameter of bottom: Φ56±2 mm 3. Inner crucible: <ol style="list-style-type: none"> (1) Material: 0.3 carbon steel (2) Inner diameter of upper opening: Φ64±1 mm (3) Height: 47±1 mm (4) Inner diameter of bottom: 38±1 mm (5) Scale line: there are two scale lines at 12 mm and 18 mm from the upper opening. 4. Gas conduit: the diameter of spout is 0.8mm~1 mm, and the surface of inner hole is smooth, so it can adjust fire length to 3mm~4 mm. 5. Heater: It is heated by electric furnace. Heating power is 1000 W, adjustable. 6. Thermometer: 0℃~360℃, scale division is 1℃. 7. Ambient temperature: ≤35℃ 8. Relative humidity: ≤85% 9. Total power consumption: less 1100 W 	Determine the flash and fire point of lubricant oils and black petroleum products	GB/T267
	Cleveland Open Cup Flash Point Tester	SYD-3536	<ol style="list-style-type: none"> 1. Power supply: AC (220±10%) V, 50Hz. 2. Heating device: Quartz tube furnace heating, no naked fire, explosion prevented. The power is adjustable from 0W to 600W. 3. Test flame applicator: It applies the test flame automatically. 4. Thermometer: (-6~400) . It is the same as thermometer ASTM 11C. ℃ 5. Igniting device: (1) Ignition source: coal gas(or civil gas) (2) Flame diameter is 3.2mm~4.8mm 6. Ambient temperature: (-10 50) ~ ℃ 7. Relative humidity: ≤85% 8. Maximum power consumption: 650W 9. Dimension: 350mm×290mm×350mm (thermometer is not included) 	Determination of Flash and Fire Points to all petroleum products with flash points above 79 and below 400℃ except fuel oils.	ASTM D 92,GB/T3536-2008

	Cleveland Open Cup Flash Point Tester	SYD-3536-1	<ol style="list-style-type: none"> 1. Power supply: AC (220±10%) V, 50Hz. 2. Heating device: Electric furnace heating, no naked fire, explosion prevented. The power is adjustable from 0W to 600W. The max heating temperature can reach 400 °C. 3. Temperature control: Single chip microcomputer. The heating rate can meet requirements of standards GB/T 3536-2008 and ASTM D92. 4. Temperature display: LCD shows temperature parameters. The display range is 0 °C ~ 400 °C, display accuracy is 0.1 °C. 5. Flash point detecting device: It applies the test flame automatically. 6. Temperature sensor: RTD, PT100 7. Igniting device: (1) Ignition source: coal gas (or civil gas) (2) Flame diameter is 3.2mm ~ 4.8mm 8. Ambient temperature: (-10 ~ 50) °C 9. Relative humidity: ≤ 85% 10. Maximum power consumption: 650W 11. Dimension: 340mm × 320mm × 450mm (Temperature sensor is included) 	Determination of Flash and Fire Points to all petroleum products with flash points above 79 and below 400 °C except fuel oils.	ASTM D 92, GB/T3536-2008
	Cleveland Open Cup Flash Point Tester	SYD-3536A	<ol style="list-style-type: none"> 1. Power supply: AC220(-10% ~ +5%)V, 50Hz 2. Flash point determination: Ambient to 400 °C Repeatability: ≤ 8 °C Reproducibility: ≤ 17 °C Accuracy: 0.1 °C 3. Heating rate: Correspond with GB/T3536 and ASTM D92 4. Ignition mode: Electric ignition. Gas flame diameter is 3.2mm ~ 4.8mm 5. Ambient temperature: (10 ~ 40) °C 6. Relative humidity: ≤ 80% 7. Maximum power consumption: 400W 8. Dimension: 410mm × 360mm × 310mm 	Determination of Flash and Fire Points to all petroleum products with flash points above 79 °C and below 400 °C except fuel oils.	ASTM D92, GB/T3536
	Fully-automatic COC Flash Point Tester	SYD-3536D	<ol style="list-style-type: none"> 1. Power supply: AC 220V(-10% ~ +5%), 50 Hz 2. Temperature measurement: (1) Full scale: Ambient to 400 °C (2) Resolution: 0.1 °C 3. Repeatability: ≤ 8 °C (Flash point and fire point) 4. Reproducibility: ≤ 17 °C (Flash point) , 14 °C (fire point) 5. Temperature rising speed: conform to GB/T3536 6. Flame application: electronic ignition ; gas flame is about 3.2~4.8 mm in length 7. Ambient temperature: 10 °C ~ 40 °C 8. Relative humidity: ≤ 80% 9. Maximum power consumption: 500 W 10. Dimension: 520mm × 360mm × 310mm (When test arm is not risen) , 520mm × 360mm × 420mm (When test arm is risen) 	Determine Cleveland open cup flash point and fire point of petroleum products, except fuel oils and petroleum products with open flash point lower than 79 °C.	ASTM D92, GB/T3536



Pensky-Martens
Closed-Cup Flash
Point Tester

SYD-261
(1991)

1. Power supply: AC 220V±10%, 50 Hz;
2. Heating device:
 - (1) It is made of SiC materials. Its power is 600 W;
 - (2) Heating power is adjustable from 0 W~600 W;
3. Temperature rising rate: 1°C~12°C per minute;
4. Stirring device:
 - (1) Stirring motor: 45TYZ constant speed motor;
 - (2) Driving mode: by a soft shaft;
 - (3) Stirring blade: 8 mm×40 (mm);
5. Standard oil cup:
 - (1) Inner diameter: 50.8 mm;
 - (2) Depth: 56 mm;
 - (3) Scale depth: 34.2 mm;
 - (4) Oil sample cubage: about 70 ml;
6. Flame application device:
 - (1) Flame source: coal gas or other combustible gas for civil use;
 - (2) Aperture of the device: 0.8 mm;
7. Thermometer: Inner calibrated mercury thermometer
 - (1) -30°C~170°C, Scale division is 1 °C;
 - (2) 100°C~300°C, Scale division is 1 °C;
8. Ambient temperature: ≤35°C;
9. Relative humidity: ≤85%;
10. Total power consumption: not more than 650 W;
11. Dimension: 370mm×320mm×300mm

Determine the closed cup flash
point of the petroleum products.

ASTM D93, GB/T 261-2008





Pensky-Martens
Closed-Cup Flash
Point Tester

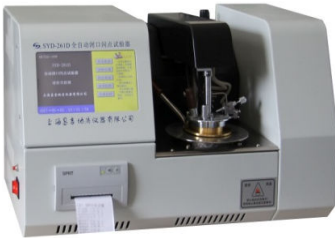
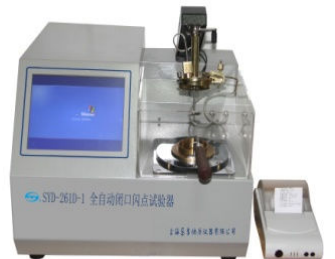

SYD-261
(2008)





1. Power supply: AC (220±10%)V, 50Hz.
2. Heating device: The heating power is continuously adjustable from 0 W to 600W.
3. Heating rate: (1~12)°C/min; Controllable and adjustable.
4. Stirring rate: Procedure A: (90~120)RPM, Procedure B: (250±10)RPM
5. Oil cup:
 - (1) Inner diameter: 50.7mm~50.8mm.
 - (2) Depth: 55.7mm~56.0mm
 - (3) The scribed line depth of capacity of testing oil: 33.9mm~34.3mm.
 - (4) Capacity of testing oil: about 70ml
6. Igniting device:
 - (1) Igniting source: gas (or other civilian fuels, the same below)
 - (2) Electric ignition. Gas flame diameter: 3.2mm~4.8mm
7. Thermometers: Mercury-in-glass thermometer. Specifications are as below:
 - (1) Scale -5°C~110°C, division 0.5°C。
 - (2) Scale 20°C~150°C, division 1°C。
 - (3) Scale 90°C~370°C, division 2°C。
8. Ambient temperature: ≤ 35°C
9. Relative humidity: ≤ 85%
10. Maximum power consumption: 650W
11. Dimension: 370mm×320mm×300mm




Determine closed cup flash
point of petroleum products in
the range of higher than 40 °C




ASTM D93, GB/T 261-2008




	<p>Pensky-Martens Closed-Cup Flash Point Tester</p>	<p>SYD-261-1</p>	<ol style="list-style-type: none"> 1. Power supply: AC (220±10%) V, 50Hz 2. Heating device: (1) The furnace is silicon carbide material. Power 600W(2) The heating power is adjustable from 0 W to 600W 3. Rate of sample's heating up: Procedure A : (5~8) °C/min; Procedure B: (1~1.5) °C/min; Automatically control 4. Electric stirring device : (1) Stirring motor: (BYGH101stepping motor) (2) Driving mode: flexible axle (3) Stirring vane size: 8mm×40mm 5. Stirring rate: (1) 90~120 turns/min, suitable to test procedure A. (2) (250±10) turns/min, suitable to test procedure B. 6. Standard oil cup:(1) Inner diameter: 50.7mm~50.8mm (2) Depth: 55.7mm~56.0mm (3) Scribed line depth of capacity of oil sample: 33.9mm~34.3mm(4) Capacity of oil sample: about 70ml. 7. Igniting device: (1) Igniting source: gas (or other civilian fuels, the same below) (2) bore diameter: 0.8mm 8. Temperature testing probe : Pt100 9. Ambient temperature: ≤ 35°C 10. Relative humidity: ≤ 85% 11. Power consumption: ≤ 650W 12. Dimension:340mm×330mm×380mm 	<p>Determine closed cup flash point of petroleum products in the range of higher than 40 °C</p>	<p>ASTM D93,GB/T 261-2008</p>
	<p>Automatic PMCC Flash Point Tester</p>	<p>SYD-261A</p>	<ol style="list-style-type: none"> 1. Power supply: AC 220V±10%, 50 Hz; 2. Temperature measurement: <ol style="list-style-type: none"> (1) Full scale: room temperature~300°C; (2) Repeatability: ≤2°C; (3) Reproducibility: ≤4°C; (4) Resolution: 0.1 °C; 3. Temperature rising rate: <ol style="list-style-type: none"> (1) Procedure A: (5~8)°C/min (2) Procedure B:(1~1.5)°C/min <p>To be controled automatically. Can be adjusted manually.</p> 4. Stirring rate:(1) (90~120)RPM, applied to procedure A. (2) (250±10)RPM, applied to procedure B. To be controled automatically. Can be adjusted manually. 5. Ignition mode: Gas flame 6. Working environment: <ol style="list-style-type: none"> (1) Ambient temperature: 10 °C~40°C; (2) Relative humidity: ≤80%; 7. Total power consumption: ≤500 W; 8. Overall dimension: 410mm×360mm×310mm(when the lifting arm not rise) 410mm×360mm×420mm(when the lifting arm is rised) 	<p>Determine closed cup flash point of petroleum product</p>	<p>ASTM D93,GB/T 261-2008</p>




	Fully-automatic PMCC Flash Point Tester	SYD-261D	<ol style="list-style-type: none"> 1. Power supply: AC(220±10%)V, 50Hz 2. Temperature measurement: Range: room temperature~300℃ Repeatability: ≤3℃ Reproducibility: ≤6℃ Accuracy: 0.1℃ 3. Heating rate: Procedure A: (5~6)℃/min Procedure B: (1~1.6)℃/min Automatic control and manually adjustable. 4. Stirring rate: (1) Procedure A: (90~120)RPM (2) Procedure B: (250±10)RPM Automatic control and manually adjustable. 5. Igniting mode: Electric ignition. Gas flame diameter: 3.2mm~4.8mm 6. Working condition: ambient temperature: (10~40)℃ relative humidity: ≤80% 7. Total power consumption: ≤500W 8. Overall dimension: 520mm×360mm×310mm 	Determine the closed cup flash point of petroleum products	ASTM D93, GB/T 261-2008
	Automatic Pensky-Martens Closed-Cup Flash Point Tester	SYD-261D-1	<ol style="list-style-type: none"> 1. Measurement range: 40~300℃ 2. Standards: GB/T 261 and ASTM D93 3. Temperature measurement: High precision PT100 4. Flash point measurement: Miniature thermocouple 5. Heating rate: (5~6)℃/min GB/T 261 A、ASTM D93 A (1~1.5)℃/min GB/T 261 B、ASTM D93 B (3.0±0.5)℃/min ASTM D93 C 6. Heater: AC220V、0.5kW 7. Stirring rate: (90-120)rpm (GB/T 261 A、ASTM D93 A) 250rpm (GB/T 261 B、ASTM D93 B) (90-120)rpm (ASTM D93 C) 8. Gas source: Liquefied petroleum gas, Dimethylmethane 9. Power supply: AC220V 5A 50Hz 10. Dimension: 384mm×418mm×328mm (L×W×H) 11. Net weight: Around 15kg 	Determination of the closed cup flash point of the petroleum products	ASTM D93, GB/T 261-2008
	Rapid Low Temperature Closed Cup Flash Point Tester	SYD-5208	<ol style="list-style-type: none"> 1. Power supply: AC(220±10%)V、50Hz 2. Flash point detecting range: (-30~50)℃ 3. Precision of determination: Absolute difference value between two determinations is lower than 2℃ (by same operator) Absolute difference value between two determinations is lower than 3℃ (by different operators) 4. Temperature control accuracy: ±0.5℃ 5. Gas source: LPG or civil gas 6. Igniting device: Electric igniting gun 7. Cooling mode: Semiconductor (with cold water cycle by external connection) 8. Overall Power Consumption: ≤300W 9. Ambient temperature: (5~30)℃ 10. Relative humidity: (30~80)% 11. Overall dimension: 370mm×280mm×280mm (L×W×H) 	Determination for closed cup flash point of petroleum products, colored paint, oil paint, adhesive, solvent and other relevant products which flash point is -30℃~50℃.	ASTM D93, GB/T 5208-2008




	<p>Rapid Low Temperature Closed Cup Flash Point Tester</p>	<p>SYD-5208D</p>	<ol style="list-style-type: none"> 1. Power supply: AC(220±10%)V、50Hz 2. Flash point detecting range: (0~100)°C 3. Precision of determination: Absolute difference value between two determinations is lower than 2 °C (by same operator) Absolute difference value between two determinations is lower than 3 °C (by different operators) 4. Temperature control accuracy: ±0.5°C 5. Gas source: LGP or civil gas 6. Igniting device: Electric igniting gun 7. Cooling mode: Semiconductor(with cold water cycle by external connection) 8. Overall Power Consumption: ≤300W 9. Ambient temperature: (5~30)°C 10. Relative humidity: (30~80)% 11. Overall dimension: 370mm×280mm×280mm (L×W×H) 	<p>Determine the products such as colored paint,oil paint, adhesive,solvent,petroleum and other relevant products which flash point is 0°C~100°C.</p>	<p>ASTM D93,GB/T 5208-2008</p>
	<p>Engler Viscometer</p>	<p>WNE-1A</p>	<ol style="list-style-type: none"> 1. Standard water value: 51±1 s; 2. Temperature measurement range: 0 °C~100°C; 3. Temperature controlling accuracy: ±0.2°C; 4. Thermometer: In accordance with GB514; 5. Measuring flask: 200±0.2 ml; 6. Inner container: Made of stainless steel; 7. Power of heater: 550 W; 8. Timer accuracy: 1/100 s 	<p>Determine the rate of time(seconds) of liquid flow out from Engler viscometer and time(seconds) of distilled water flow out at 20°C under certain temperature and cubage.This rate is the Engler viscosity..Unit is Engler degree.</p>	<p>ASTM D1665,GB/T266</p>
	<p>Petroleum Products Water Content Tester</p>	<p>SYD-260</p>	<ol style="list-style-type: none"> 1. Power supply: AC 220 V±10%, 50 Hz; 2. Heating power of electric furnace: 1000 W; 3. Heating control: bidirectional silicon controlled rectifier to adjust voltage continuously. 4. Ambient temperature: ≤35 °C; 5. Relative humidity: ≤85%; 6. Total power consumption: not more than 1100 W; 7.Dimension:320mm×220mm×700mm 	<p>Determine water content in the petroleum products, water content in the lubricating grease</p>	<p>ASTM D95,GB/T260</p>
	<p>Petroleum Products Water Content Tester</p>	<p>SYD-260A</p>	<ol style="list-style-type: none"> 1. Power supply: AC 220V±10%, 50 Hz 2. Power of electric furnace: 1000 W×2 3. Heat controlling type: by a bidirectional silicon controlled rectifier 4. Ambient temperature: ≤35 °C 5. Relative humidity: ≤85% 6. Total power consumption: not more than 2200 W 7.Dimension:430mm×320mm×700mm 	<p>Determine water content in the petroleum products, water content in the lubricating grease</p>	<p>ASTM D95,GB/T260</p>

	<p>Coulometric Karl Fischer Titrator</p>	<p>SYD-2122C</p>	<ol style="list-style-type: none"> 1. Amount and precision of electrolyzed water: 1) 10ug~1000ug, ±2ug 2) >1000ug, 0.2% 2. Measurement range: 0~100 mg 3. Resolution: 0.1ug 4. Maximum electrolysis speed: 40ug/s 5. Power supply: AC 220V±20%, 50 Hz 6. Maximum power consumption: 30 W 7. Ambient temperature: 10 °C~35 °C 8. Relative humidity: ≤85% 9. Dimension: 320mm×240mm×150mm 10. Net weight: 5 kg 	<p>Determination of Water in Petroleum Products,Lubricating Oils and Additives by Karl Fischer Titration.</p>	<p>ASTM D1533,GB/T 7600</p>
	<p>Petroleum Products Kinematic Viscosity Tester</p>	<p>SYD-265B</p>	<ol style="list-style-type: none"> 1. Power supply: AC 220±10%, 50 Hz; 2. Heating device: electric heater; power is 600 W; 3. Stirring motor: <ol style="list-style-type: none"> (1) Power: 6 W; (2) Rotation speed: 1200 RPM; 4. Temperature controlling range: room temperature~100°C; 5. Temperature controlling accuracy: ±0.1°C; 6. Temperature sensor: Industry platinum resistance; Pt100; 7. Ambient temperature: room temperature~35°C; 8. Relative humidity: ≤85%; 9. Capillary viscometer: Total 7 pieces; their diameters are 0.6, 0.8, 1.0, 1.2, 1.5, 2.0, and 2.5mm; 10.Dimension:500mm×310mm×500mm 	<p>Determine kinematic viscosity of liquid petroleum products (Newton liquids) at a constant temperature,Determination of kinematic viscosity and calculation of dynamic viscosity.</p>	<p>ASTM D445,GB/T 265</p>
	<p>Petroleum Products Kinematic Viscosity Tester</p>	<p>SYD-265C</p>	<ol style="list-style-type: none"> 1. Power supply: AC(220±10%)V, 50Hz±5% 2. Heating power: 1600W 3. Stirring motor: 6W, 1200RPM 4. Temperature control range: Ambient to 100°C 5. Temperature control accuracy: ±0.1°C 6. Constant temperature bath: 20L,double shell structure 7. Working environment: Ambient temperature: room temperature~35°C Relative humidity: ≤85% 8. Temperature sensor: RTD, Pt100 9. Maximum power consumption: 1800W 10. Capillary viscometer tubes (Pinkevitch viscometer): 7 pieces in total, inner diameter for each: 0.6mm, 0.8mm, 1.0mm, 1.2mm, 1.5mm, 2.0mm, 2.5mm 11. Dimension: 530mm×400mm×670mm 	<p>Determine kinematic viscosity of liquid petroleum products (Newtonian liquids) at a constant temperature,Determination of kinematic viscosity and calculation of dynamic viscosity.</p>	<p>ASTM D445,GB/T 265</p>




	<p>Kinematic viscosity, Reverse-flow viscosity, Viscosity index Tester</p>	<p>SYD-265B-1</p>	<ol style="list-style-type: none"> 1. Capacity of bath: $\Phi 240\text{mm} \times 280\text{mm}$ 2. Temperature range: Ambient to 100°C 3. Temperature resolution: 0.01°C 4. Temperature control precision: $\pm 0.05^{\circ}\text{C}$ 5. Timing precision: $\pm 0.1\text{s}$ 6. Display: 5.6 inch colored LCD 7. Sample amount: 2 samples 8. Power supply: AC($220 \pm 10\%$)V, $50\text{Hz} \pm 1\text{Hz}$ 9. Maximum power consumption: 750W 10. Working environment: Ambient temp.: ($15 \sim 35$) $^{\circ}\text{C}$, RH < 85% 11. Dimension: $535\text{mm} \times 440\text{mm} \times 550\text{mm}$ 12. Net weight: 23kg 	<p>Determine the kinematic viscosity of liquid petroleum products (Newtonian liquids) and the kinematic viscosity of dark petroleum products, the viscosity index of lubricating oils.</p>	<p>ASTM D445, GB/T 265</p>
	<p>Kinematic viscosity, Viscosity index Tester</p>	<p>SYD-265B-3</p>	<ol style="list-style-type: none"> 1. Capacity of bath: $\Phi 240\text{mm} \times 280\text{mm}$ 2. Temperature range: Ambient to 150°C 3. Temperature resolution: 0.01°C 4. Temperature control precision: $\pm 0.05^{\circ}\text{C}$ 5. Temperature sensor: PT100, Industrial platinum resistor 6. Timing precision: $\pm 0.1\text{s}$ 7. Display: 5.6 inch colored LCD (Touch display) 8. Sample amount: 2 samples 9. Power supply: AC($220 \pm 10\%$)V, $50\text{Hz} \pm 1\text{Hz}$ 10. Maximum power consumption: $\leq 750\text{W}$ 11. Working environment: Ambient temp.: ($15 \sim 35$) $^{\circ}\text{C}$, RH < 85% 12. Dimension: $870\text{mm} \times 440\text{mm} \times 550\text{mm}$ 13. Net weight: 33kg 	<p>Determine the kinematic viscosity of liquid petroleum products (Newtonian liquids) and dark petroleum products, the viscosity index of lubricating oils and related substance</p>	<p>ASTM D445, GB/T 265</p>
	<p>Kinematic viscosity, Reverse-flow viscosity, Viscosity Index Tester</p>	<p>SYD-265C-3</p>	<ol style="list-style-type: none"> 1. Capacity of bath: $\Phi 300\text{mm} \times 300\text{mm}$ 2. Temperature range: Ambient to 100°C 3. Temperature resolution: 0.01°C 4. Temperature control precision: $\pm 0.05^{\circ}\text{C}$ 5. Timing precision: $\pm 0.1\text{s}$ 6. Display: 5.6 inch colored LCD 7. Sample amount: 4 samples 8. Power supply: AC($220 \pm 10\%$)V, $50\text{Hz} \pm 1\text{Hz}$ 9. Maximum power consumption: 1500W 10. Working environment: Ambient temp.: ($15 \sim 35$) $^{\circ}\text{C}$, RH < 85% 11. Dimension: $615\text{mm} \times 500\text{mm} \times 580\text{mm}$ 12. Weight: 25.5kg 	<p>Determine the kinematic viscosity of liquid petroleum products (Newtonian liquids) and the kinematic viscosity of dark petroleum products, the viscosity index of lubricating oils.</p>	<p>ASTM D445, GB/T 265</p>




	Kinematic Viscometer	SYD-265D-1	<ol style="list-style-type: none"> 1. Power supply: AC 220 ± 10 %, 50 Hz. 2. Heating power: 1000W(auxiliary heating), 600W(temperature control heating) 3. Stirring motor: 6 W, 1200 RPM 4. Temperature range: Ambient to 100.0℃. 5. Temperature control accuracy: ±0.01℃. 6. Timer: 0.0s~999.9s 7. Constant temperature bath: 20L, double shall structure. 8. Ambient temperature: -10℃~+35℃ 9. Relative humidity: <85% 10. Maximum power consumption: 1800W. 11. Capillary viscometer tubes(Pinkevitch viscometer): 7 pieces in total. The inner diameters for each: 0.6, 0.8,1.0, 1.2, 1.5, 2.0 and 2.5mm 12. Dimension: 530mm×400mm×670mm Net weight: about 42Kg 	Determine kinematic viscosity of liquid petroleum products (Newtonian liquids) by measuring the time for a volume of liquid to flow under gravity through a calibrated glass capillary viscometer at a constant temperature.	ASTM D445,GB/T 265
	Petroleum Products Kinematic Viscosity Tester	SYD-265H	<ol style="list-style-type: none"> 1. Power supply: AC(220±10%)V, 50Hz 2. Heating power: 1700W 3. Temperature range: Ambient to 100.0℃ 4. Temperature control accuracy: ±0.01℃ 5. Bath capacity: 20L 6. Timing range: 0.0s~9999.9s 7. Timing accuracy: ±0.05% within 60min 8. Amount of capillary viscometer tubes: 4 capillary viscometers 9. Stirring motor: 6 W, 1200 RPM 10. Working condition: (Ambient temperature-10)℃~35℃, RH: ≤85% 11. Temperature sensor: RTD, Pt100 12. Maximum power consumption: 1800W 13. Capillary viscometers tubes(Pinkevitch viscometer): 7 pieces in total. The inner diameter for each: 0.6mm, 0.8mm, 1.0mm, 1.2mm, 1.5mm, 2.0mm, 2.5mm 14. Dimension: 530mm×400mm×670mm 	Determine kinematic viscosity of liquid petroleum products (Newtonian fluids) by measuring the time for a volume of liquid to flow under gravity through a calibrated glass capillary viscometer at a constant temperature.	ASTM D445,GB/T 265
	Petroleum Products Kinematic Viscosity Tester	SYD-265H-A	<ol style="list-style-type: none"> 1. Power supply:AC(220±10%)V,50Hz 2. Water bath heating power:2400W 3. Temperature range:20℃~100℃ continuously adjustable 4. Temperature control accuracy: ±0.01℃ 5. Timing range:0.0s~ 1000s max 25599.99S 6. Sample quantity:4 pcs capillary tubes at same time 7. Ambient temperature:5℃~40℃, relative humidity≤85% 8. Temperature sensor:PT100,industrial platinum resistor 9. Maximum power consumption:less 2500W 10. Capillary viscometer:total 7pcs,separate inner diameter: 0.6mm, 0.8mm,1.0mm, 1.2mm,1.5mm,2.0mm,2.5mm 11. Dimension:480mm×380mm×600mm 12. Net weight:35kg 	Determine the kinematic viscosity of liquid petroleum products(Newtonian Liquid) at a constant temperature.	ASTM D445,GB/T 265





	<p>Automatic Kinematic Viscosity Tester</p>	<p>SYD-265H-1</p>	<ol style="list-style-type: none"> 1、 Temperature sensor:Pt1000 2、 Temperature range: 15℃~120℃ 3、 Temperature resolution:0.001℃ 4、 Temperature control accuracy: ±0.04℃ 5、 Timing accuracy:±0.1s、 resolution ratio 0.01s 6、 Sample quantity:2 pcs 7、 Usage environment:temperature 15℃~35℃、 humidity less 85% 8、 Power supply:AC220V ±10% 50Hz±1Hz 9、 Total consumption:≤2100W 10、 Outline dimension:550mm×600mm×1350mm (L×W×H) 11、 Net weight: 125kg <p>Note:The instrument with standard configuration 4 pcs Ubbelohde capillary tubes, The inner diameters for each is 0.8mm、 1.0mm、 1.2mm and 1.5mm,If the user need other kinds of viscometer,pls inform us for customizing.</p>	<p>Determine Kinematic viscosity, viscosity number, and limiting viscosity number of oils and polymer in dilute solution.used in the field of pharmaceuticals, petroleum, chemistry, scientific research, and metrology.</p>	<p>ASTM D445,GB/T 265,ASTM D2270</p>
	<p>Low Temperature Kinematic Viscosity Tester (-65℃)</p>	<p>SYD-265G</p>	<ol style="list-style-type: none"> 1. Power supply: AC 220V±10%, 50 Hz 2. Heating device: Electric heater, 600 W 3. Refrigeration unit: Double refrigeration compressors 4. Stirring motor: 6 W, 1200 RPM 5. Temperature range: Ambient to 100.0℃ 6. Temperature control accuracy: ±0.1 ℃ 7. Constant temperature bath: 5.8 L, stainless steel. 8. Ambient temperature: ≤30 ℃ 9. Relative humidity: ≤85% 10. Temperature sensor: RTD, Pt100 11. Illumination: 220 V electricity-saving lamp. 12. Capillary viscometer tubes(Pinkevitch viscometer): 7 pieces in total. The diameters for each is 0.6, 0.8, 1.0, 1.2, 1.5, 2.0, 2.5 mm. 13. Maximum power consumption: 1700 W 14. Dimension: 530mm×460mm×870mm 	<p>Determine the kinematic viscosity of liquid petroleum products (Newtonian liquids) under a constant temperature (low),Determination of kinematic viscosity of and calculation of dynamic viscosity.</p>	<p>ASTM D445,GB/T 265</p>
	<p>Low Temperature Kinematic Viscometer (-40℃)</p>	<p>SYD-265G-1</p>	<ol style="list-style-type: none"> 1. Power supply: AC 220V±10%, 50 Hz 2. Heating device: Electric heater, 600 W 3. Refrigeration unit: refrigeration compressor 4. Stirring motor: 6 W, 1200 RPM 5. Temperature range: Ambient to -35.0 ℃ 6. Temperature control accuracy: ±0.1 ℃ 7. Constant temperature bath: 5.8 L, Dewar 8. Ambient temperature: ≤30 ℃ Relative humidity ≤85% 10. Temperature sensor: RTD, Pt100 12. Capillary viscometer tubes: 7 pieces in total. The diameters for each is 0.6, 0.8, 1.0, 1.2, 1.5, 2.0, 2.5 mm. 13. Maximum power consumption: less 1200 W 14. Dimension: 850mm×410mm×450mm 	<p>Determine the kinematic viscosity of liquid petroleum products (Newtonian liquids) under a constant temperature (low),Determination of kinematic viscosity of and calculation of dynamic viscosity.</p>	<p>ASTM D445,GB/T 265</p>





	Automatic Capillary Viscometer Washer	SYD-265-3	<ol style="list-style-type: none"> 1. Power supply: AC 220V±10%, 50 Hz 2. Maximum power consumption: 700 W 3. Water bath temperature control range: Ambient to 80 °C 4. Ambient temperature: Room temperature~35 °C 5. Relative humidity: ≤85% 6. Dimension of washer: 320mm×300mm×500mm (excluding the aspirator) 7. Net weight of washer: 10Kg (excluding the aspirator) 	Wash glass capillary viscometer of various types, such as Pinkevitch viscometer, Ubbelohde viscometer, Cannon-Fenske routine viscometer, Cannon-Fenske opaque viscometer.	
	Petroleum Products Distillation Tester	SYD-255	<ol style="list-style-type: none"> 1. Power supply: AC(220±10%)V, 50Hz 2. Distillation flask: Made of hard glass. Heat resistance is higher than 500 °C. Diameter of ball is φ69mm±1mm. Diameter of bottleneck is φ16mm±1mm. The angle between branch pipe and bottleneck is 75°±3° 3. Thermometer: (0~360)°C, division value 1 °C 4. Condensate tank: Made of stainless steel material. The condenser pipe is made of brass and diameter is φ16mm×1mm. 5. Heat adjustment: It consists of heating device, thermal control circuit and control panel. Power 1000W, Heating rate can be adjusted continuously. 6. Measuring cylinder and weight: Two kinds of cylinder 10ml and 100ml. The weight is made of carbon steel and being placed on cylinder bottom to prevent the cylinder from floating. 7. Working environment: Room temperature-10~+35°C. Relative humidity ≤85% 8. Maximum power consumption: 1100W 9. Dimension: 710mm×240mm×470mm 	Determine distillate constituent of liquid fuels, solvent oils, and light petroleum products.	ASTM D86,GB/T 255
	Petroleum Products Distillation Apparatus	SYD-255K	<ol style="list-style-type: none"> 1. Power supply: AC(220±10%)V, 50Hz 2. Distillation flask: Made of hard glass. Heat resistance is higher than 500 °C. Diameter of ball is φ69mm±1mm. Diameter of bottleneck is φ16mm±1mm. The angle between branch pipe and bottleneck is 75°±3° 3. Thermometer: (0~360)°C, division value fit the GB/T 514 standards 4. Condensate tank: Made of stainless steel material. The condenser pipe is made of brass and diameter is φ16mm×1mm. 5. Condensate tank temperature control: Automatic temperature control function, temperature range (ambient+10) °C to 60°C free set, accuracy ±0.5 °C. 6. Heat adjustment: It consists of heating device, thermal control circuit and control panel. Power 1000W, Heating rate can be adjusted continuously. 7. Measuring cylinder and mould weight: Two kinds of cylinder 10ml and 100ml. The mould weight is made of carbon steel and being placed on cylinder bottom to prevent the cylinder from floating. 8. Working environment: Room temperature-10~+35°C. Relative humidity ≤85% 9. Maximum power consumption: 1100W 10. Dimension: 710mm×240mm×470mm 	Determine distillate constituent of liquid fuels, solvent oils, and light petroleum products.	ASTM D86,GB/T 255




	<p>Petroleum Products Distillation Tester</p>	<p>SYD-6536</p>	<ol style="list-style-type: none"> 1. Power supply:AC(220±10%)V, 50Hz 2. Heating power:1000W, continuous adjustment 3. Receiving cylinder:100ml, scale division 1ml 4. Distillation flask:125mL. It can meet requirements GB/T 6536 and ASTM D86 5. Thermometer:(-2~300)°C and (-2~400)°C. Division value 1°C 6. Flask support board:SiC, diameter for each hole is φ32mm,φ38mm and φ50mm 7. Ambient temperature:Room temp. ~+35°C 8. Relative humidity:≤85% 9. Maximum power consumption:1100W 10.Dimension:60mm×400mm×500mm 	<p>Determine the distillation characteristics of gasoline, aviation gasoline, jet fuels, and solvent having special boiling point, naphtha, diesel oil, distillate fuels and similar petroleum products.</p>	<p>ASTM D86,GB/T6536</p>
	<p>Petroleum Products Distillation Tester(Double)</p>	<p>SYD-6536A</p>	<ol style="list-style-type: none"> 1.Power supply: AC(220±10%)V, 50Hz 2.Heating power: 1300W×2, continuously adjustable. 3.Receiving cylinder: 100ml, division value 1ml. 4.Distillation flask: 125ml,meet the requirements of GB/T 6536 and ASTM D86 5.Thermometer: (-2~300)°C and (-2~400)°C, division value 1°C 6.Flask support board: SiC, bore diameter φ32mm, φ38mm, φ50mm. 7.Temperature controller: 1) Range: (Ambient +10)°C~60°C 2) Accuracy: ±0.5°C 3) Display: LED <p>Note: The temperature control is to control the temperature of condensate in the condenser pipe.</p> <ol style="list-style-type: none"> 8.Ambient temperature: ≤35°C 9.Relative humidity: ≤85% 10.Maximum power consumption: 4000W 11.Dimension:760mm×520mm×500mm 	<p>Determine the distillation characteristics of gasoline, aviation gasoline, jet fuels, solvent having special boiling point, naphtha, diesel oil, distillate fuels, and other petroleum products.</p>	<p>ASTM D86,GB/T6536</p>
	<p>Distillation Apparatus</p>	<p>SYD-6536K</p>	<ol style="list-style-type: none"> 1. Power supply:AC(220±10%)V, 50Hz 2. Heating power:1300W, continuous adjustment 3. Receiving cylinder:100ml, scale division 1ml 4. Distillation flask:125mL. It can meet requirements GB/T 6536 and ASTM D86 5.Water bath temperature control: range (ambient+10)°C to 60°C,free set.Accuracy: ±0.5°C. Temperature display:LED display.Heater power:600W <p>Note:the water bath temperature control is to manage the phlegma temperature of condenser pipe.</p> <ol style="list-style-type: none"> 6.Ambient temperature:Room temp. ~+35°C Relative humidity: ≤85% 7. Maximum power consumption:less 2000W 8.Dimension:460mm×400mm×500mm 	<p>Determine the distillation characteristics of gasoline, aviation gasoline, jet fuels, and solvent having special boiling point, naphtha, diesel oil, distillate fuels and similar petroleum products.</p>	<p>ASTM D86,GB/T6536</p>




	<p>Petroleum Products Distillation Tester (Low Temperature Double Units)</p>	<p>SYD-6536B</p>	<p>1.Power supply: AC(220±10%)V, 50Hz 2.Heating power: 1000W×2. 3.Receiving cylinder: 100ml, division value is 1ml. 4.Distillation flask: 125ml,meet the requirements of GB/T 6536 and ASTM D86 5.Thermometer:(-2~300)°C and (-2~400)°C. Division value 1°C. 6.Flask support board: SiC, bore diameter is: φ32mm, φ38mm, φ50mm. 7.Temperature controller: 1) Range: 0°C~60°C 2) Accuracy: ±0.5°C 3) Display: LED Note: The temperature control is to control the temperature of condensate in the condenser pipe. 8.Ambient temperature: ≤30°C 9.Relative humidity: ≤85% 10.Cooling system: New type refrigeration compressor 11.Maximum power consumption: 4000W 12.Dimension: 730mm×530mm×580mm</p>	<p>Determine the distillation characteristics of gasoline, aviation gasoline, jet fuels, solvent having special boiling point, naphtha, diesel oil, distillate fuels, and other petroleum products.</p>	<p>ASTM D86,GB/T6536</p>
	<p>Petroleum Products Distillation Tester (Low Temperature Double Units)</p>	<p>SYD-6536B-1</p>	<p>1.Power supply: AC(220±10%)V, 50Hz 2.Heating power: 1200W×2 3.Receiving cylinder: 100ml, division value is 1ml. 4.Distillation flask: 125ml,meet the requirements of GB/T 6536 and ASTM D86 5.Thermometer:(-2~300)°C and (-2~400)°C. Division value 1°C 6.Flask support board: Silicon Carbide holder, bore diameter:φ38mm, φ50mm. 7.Cooling system: New type refrigeration compressor 8.Ambient temperature: ≤30°C 9.Relative humidity: ≤85% 10.Cooling system: New type refrigeration compressor 11.Maximum power consumption: less 3800W 12.Dimension: 660mm×505mm×66mm(L*W*H) 13.Net weight:30 Kg</p>	<p>Determine the distillation characteristics of gasoline, aviation gasoline, jet fuels, solvent having special boiling point, naphtha, diesel oil, distillate fuels, and other petroleum products.</p>	<p>ASTM D86,GB/T6536</p>
	<p>Petroleum Products Distillation Tester</p>	<p>SYD-6536C</p>	<p>1.Power supply: AC 220 V±10%, 50 Hz 2.Heating power: 1000 W 3.Receiving cylinder: 100 ml. Scale division 1 ml. 4.Distillation flask: 125 ml, as per GB/T6536 and ASTM D86. 5.Thermometer: Total immersion. They are from -2 to 300 °C and from -2 to 400 °C. The scale divisions of them are 1 °C. 6.Flask support board: SiC. Diameters of holes are φ32mm, 38mm, and 50mm. 7.Temperature controller: (1) Range: 0 °C to 60 °C (2) Accuracy: ±0.5°C (3) Display: LED 8.Ambient temperature: ≤30°C 9.Relative humidity: ≤85% 10.Refrigerated compressor: New-type refrigeration compressor 11.Maximum power consumption: 2500 W 12.Dimension:570mm×440mm×550mm</p>	<p>Determine the distillation characteristics of gasoline, aviation gasoline, jet fuels, special boiling point solvent, naphtha, diesel oil, distillate and similar petroleum products.</p>	<p>ASTM D86,GB/T6536</p>




	Automatic Distillation Apparatus	SYD-6536D	<ol style="list-style-type: none"> 1. Temperature range of bath: (0~60)°C 2. Temperature control precision of bath: ±0.5°C 3. Temperature range of receiving chamber: (0~60)°C 4. Temperature control precision of receiving chamber: ±1°C 5. Distillation heater: 1000W, 24V 6. Distillate liquid detection: (0~100)mL, resolution 0.01mL 7. Distillate liquid detection precision: ≤0.1mL 8. Power supply: AC(220±10%)V, 50Hz 9. Maximum power consumption: 2500W 10. Working environment: Ambient temp. (10~35)°C; RH≤80% 11. Dimension: 500mm×530mm×660mm 12. Net weight: 85kg 	Determine the distillation characteristics of motor gasoline, aviation gasoline, jet fuel, diesel oil, distillate fuel, naphtha, and some solvents which have special boiling points.	ASTM D 86,ASTM D 850, ASTM D 1078,GB/T 6536, GB/T 7534
	Vacuum Distillation Tester	SYD-0165	<ol style="list-style-type: none"> 1. Power supply: AC(220±10%)V, 50Hz 2. Heating power: Heater for distillation flask: 1000W, Heater for receiver: 350W 3. Heating furnace of distillation flask: (0~1000)W, adjustable 4. Temperature control point of air bath of receiver: Ambient to 100°C, adjustable 5. Temperature sensor of air bath: Pt100,RTD 6. Temperature control mode: Digital temperature controller 7. Temperature control precision: Set temp.±1°C 8. Capacity of buffer vessel: 1000ml 9. Max. residual pressure: 2mmHg 10. Digital pressure gauge: (0~200) mmHg 11. Illumination light in the air bath : Energy saving lamp 12. Working condition: Ambient temp.: (5~35)°C RH: < 85% 13. Dimension: 580mm×230mm×605mm 	Determine the distillation characteristics of wax oil, lubricating oils and other petroleum products with high boiling point range.	ASTM D721,GB/T 0615
	Vacuum Distillation Apparatus	SYD-0165A	<ol style="list-style-type: none"> 1. Power supply: AC(220±10%)V, 50Hz 2. Heating power: Heater for distillation flask: 1000W, Heater for receiver: 350W 3. Heating furnace of distillation flask: (0~1000)W, adjustable 4. Temperature control point of air bath of receiver: Ambient to 100°C, adjustable 5. Temperature sensor of air bath: Pt100,RTD 6. Temperature control mode: Digital temperature controller 7. Temperature control precision: Set temp.±1°C 8. Capacity of buffer vessel: 1000ml 9. Max. residual pressure: 2mmHg 10. Digital pressure gauge: (0~200) mmHg 11. Illumination light in the air bath : Energy saving lamp 12. Working condition: Ambient temp.: (5~35)°C RH: < 85% 13. Dimension: 580mm×230mm×605mm 	Determine the distillation characteristics of wax oil, lubricating oils and other petroleum products with high boiling point range.	ASTM D721,GB/T 0615




	Semi-automatic Vacuum Distillation Apparatus	SYD-0165B	<ol style="list-style-type: none"> 1. Power supply: AC(220±10%)V , 50Hz。 2. Heating furnace of distillation flask: (0~1000)W, adjustable 3. Heating power of receiver: 350W, automatically controlled. 4. Temperature control point of receiver: Ambient to 99℃±3℃, adjustable. 5. Setting range of vacuum residual pressure: (2~99) mmHg±0.1mmHg. 6. Measurement range of vacuum residual pressure: (2~150) mmHg±0.1mmHg, automatic pressure maintenance 7. Volume of buffer vessel: 1000ml 8. Illumination light in the air bath : Energy saving lamp 9. Working condition: Ambient temp.: (5~35)℃ RH: < 85% 10. Dimension: 600mm×230mm×605mm 	Determine the distillation characteristics of wax oil, lubricating oils and other petroleum products with high boiling point range.	ASTM D721,GB/T 0615
	Vacuum Distillation Apparatus	SYD-9168	<ol style="list-style-type: none"> 1. Power supply: AC220V 50Hz. Power ≤2000W 2. Power of heating furnace: (0~1000)W,continuously adjustable. 3. Receiving cylinder water circulation: The temperature control point is continuously adjustable. Ambient to 80℃±2℃. Automatic. 4. Cooling mode: Semiconductor 5. Setting range of vacuum pressure residue: (1~99)mmHg 6. Measuring range of vacuum pressure residue: (1.00~150.00) mmHg±0.01mmHg. Automatic pressure maintenance. 7. Capacity of buffer tank: 15L 9. Working environment: Ambient temp.: 5~35℃ RH: < 85% 10. Dimension: 880mm×530mm×910mm 	Determine the range of boiling points for petroleum products that can be partially or completely vaporized at a maximum liquid temperature of 400℃.	ASTM D1160,GB/T 9168
	Petroleum Products Density Tester	SYD-1884	<ol style="list-style-type: none"> 1. Power supply: AC (220±10%) V,50Hz 2. Dimension of constant temperature bath: Φ300mm×340mm 3. Capacity of cylinder: 500ml 4. Heating power: 700W,1000W 5. Temperature controller: (1) Range: Ambient to 100℃ (2) Accuracy: ±0.2℃ (3) Sensor: Pt100 6. Thermometer: Mercury-in-glass thermometer. Scale division is 0.2℃. 7. Dimension: 560mm×380mm×580mm 	Determine the density of crude petroleum and liquid petroleum.	ASTM D1298,GB/T 1884-2000
	Petroleum Products Low Temperature Density Tester	SYD-1884A-1	<ol style="list-style-type: none"> 1. Power supply: AC (220±10%) V, 50Hz 2. Capacity of cylinder: 500ml 3. Minimum temperature control value: 20℃ 4. Temperature control accuracy: ±0.25℃ 5. Temperature sensor:PT100 6. Test tubes quantity: 2pcs 7. Thermometer: -1℃~38℃, Scale division is 0.1℃ 8. Total power consumption: 3000W 9. Environment temperature: 5℃~30℃ 10. Humidity: ≤85% 11. Dimension: 510mm×360mm×660mm(L*W*H) 12. Net weight: 35kg 	Determine the low temperature density of crude petroleum,liquid petroleum products,petroleum products and the mixture of non-petroleum products.	ASTM D1298,GB/T 1884-2000





	<p>Density, Kinematic Viscosity, Viscosity Index Tester</p>	<p>SYD-1884B</p>	<ol style="list-style-type: none"> 1. Capacity of bath: $\Phi 300\text{mm}\times 340\text{mm}$ 2. Temperature range: Ambient to 100°C 3. Resolution: 0.01°C 4. Temperature precision: $\pm 0.05^{\circ}\text{C}$ 5. Timing precision: $\pm 0.1\text{s}$ 6. Display: 5.6 inch colored LCD 7. Sample amount: 4 samples 8. Power supply: AC($220\pm 10\%$)V, $50\text{Hz}\pm 1\text{Hz}$ 9. Maximum power consumption: 1500W 10. Working environment: Ambient temp.: ($15\sim 35$) $^{\circ}\text{C}$, RH<85% 11. Dimension: $615\text{mm}\times 500\text{mm}\times 610\text{mm}$ 12. Net weight: 26.5kg 	<p>Determine the density(liquid petroleum products) as per GB/T 1884, the kinematic viscosity(Newtonian liquids) as per GB/T 265 and viscosity index(Lubricating oils) as per GB/T 1995.</p>	<p>ASTM D1298,GB/T 1884-2000</p>
	<p>Petroleum Products Solidifying Point Tester</p>	<p>SYD-510-1</p>	<ol style="list-style-type: none"> 1. Power supply: AC ($220\pm 10\%$) , 50Hz 2. Working chamber: Two baths in one chamber. The temperatures are the same. 3. Temperature control range: Room temp. $\sim -30^{\circ}\text{C}$ 4. Temperature control accuracy: $\pm 0.5^{\circ}\text{C}$ 5. Refrigeration: New-type refrigeration compressor 6. Ambient temperature: $\leq 30^{\circ}\text{C}$ 7. Relative humidity: $\leq 85\%$ 8. Maximum power consumption: 700W 9. Dimension: $500\text{mm}\times 430\text{mm}\times 340\text{mm}$ 	<p>Determine solidifying point of petroleum products.</p>	<p>ASTM D852, GB/T510</p>
	<p>Petroleum Products Solidifying Point Tester</p>	<p>SYD-510G</p>	<ol style="list-style-type: none"> 1. Power supply: AC ($220\pm 10\%$) , 50Hz 2. Working chamber: Two test baths in one chamber. The temperatures are the same. 3. Temperature range: Ambient to -70°C 4. Temperature control accuracy: $\pm 0.5^{\circ}\text{C}$ 5. Refrigeration: New-type refrigeration compressor 6. Ambient temperature: $\leq 30^{\circ}\text{C}$ 7. Relative humidity: $\leq 85\%$ 8. Maximum power consumption: 1000W 9. Dimension: $620\text{mm}\times 460\text{mm}\times 355\text{mm}$ 	<p>Determine solidifying point of petroleum products.</p>	<p>ASTM D852,GB/T510</p>
	<p>Cold Filter Plugging Point Filter</p>	<p>LC-2</p>	<ol style="list-style-type: none"> 1. Power supply: AC $220\text{V}\pm 10\%$, 50 Hz 2. Pumping pressure: 1961 Pa (200 mm H₂O) 3. Test cup: Glass, flat bottom, circular type; inner diameter 31.0~32.0 mm; Thickness 1.0~1.5mm; Height 115~125mm There is a mark line at 45 ml of the cup. 4. Filter assembly: It is made of cooper; Size of hole on the filter sieve is $45\ \mu\text{m}$ (330 meshes) 5. Working environment: (1) Ambient temperature: $-10\sim +35^{\circ}\text{C}$ (2) Relative humidity: $\leq 85\%$ 6. Maximum power consumption: 150 W 7. Dimension: $250\text{mm}\times 150\text{mm}\times 380\text{mm}$ (Vacuum bottles are not included) 	<p>Determine cold filter plugging point of distillate fuels, including fuels containing fluidity improver or other additive, and used for diesel engines and domestic heating devices.</p>	<p>ASTM D6371,SH/T 0248-2006</p>




	Petroleum Products Pour & Cloud Point Tester	SYD-510D	<ol style="list-style-type: none"> 1. Power supply: AC 220 V±10%, 50 Hz; 2. Temperature control of chamber: (1) Chamber I: Ambient to -51 °C, ±1 °C, temperatures of two cooling baths the same. (2) Chamber II: Ambient to -70 °C, ±1 °C, temperatures of two cooling baths the same. 3. Refrigeration system: New type refrigeration compressor 4. Ambient temperature: ≤30 °C 5. Relative humidity: ≤85% 6. Maximum power consumption: 1500 W 7. Dimension: 800mm×580mm×400mm 	Determine pour point and cloud point of petroleum oils.	ASTM D97,ASTM D2500, GB/T510
	Pour Point Accessory				
	Sodifying Point Accessory				
	Cloud Point Accessory				
	Automatic Pour Point Tester	SYD-3535Z	<ol style="list-style-type: none"> 1. Lowest test pour point: - 56 °C 2. Temperature control range: -69 °C ~ +48 °C 3. Bath temperature accuracy: ±0.5 °C 4. Cooling rate: from 48 °C to -70 °C ≤ 15 mins 5. Period of every 17 °C dropped: ≤ 150s 6. Halt interval time: > 30min 7. Test holes: 2 8. Power supply: AC220V±10%, 50Hz±1 9. Maximum power consumption: 1800W 10. Working environment: Ambient temperature 5 °C to 40 °C , RH < 85% 11. Dimension: 700mm×550mm×640mm(L*W*H) 12. Net weight: 106Kg 	Determine the pour point of high-tech petroleum and relevant substance	ASTM D97,GB/T3535
	Petroleum Products Automatic Cold Filter Plugging Point Tester	SYD-0248Z	<ol style="list-style-type: none"> 1. Temperature range: 48 °C to -70 °C 2. Temperature control accuracy: ±0.5 °C 3. Cooling speed: the time from 48 °C to -70 °C ≤ 15 mins 4. Bath temperature to drop each 17 °C: ≤ 150 seconds 5. Downtime interval: > 30 mins 6. Test holes: 2 holes 7. Power supply: AC (220±10%) V, 50±1 Hz 8. Maximum power consumption: 1800W 9. Work environment: temperature 5 °C ~ 40 °C, relative humidity ≤ 85% 10. Outline dimension: 700×550×640(mm)(L*W*H) 11. Net weight: 80kg 	Determine the CFPP of petroleum products, and also fits the standard ASTM D6371, IP309.	ASTM D6371, SH/T 0248-2006




	<p>Multifunctional Low-temperature Tester</p>	<p>SYD-510F1</p>	<ol style="list-style-type: none"> 1. Power supply: AC 220 V±10%, 50 Hz 2. Temperature control of chamber: <ol style="list-style-type: none"> (1) Chamber I: 0 °C, ±0.5 °C, temperatures in two cold baths are the same. (2) Chamber II: 0 °C, -17 °C, ±0.5 °C, temperatures in two cooling baths are the same. (3) Chamber III: -17 °C, -34 °C, ±0.5 °C, temperatures in two cooling baths are the same. (4) Chamber IV: Ambient to -70 °C, ±0.5 °C, temperatures in two cooling baths are the same. 3. Refrigeration system: a new type refrigeration compressor. 4. Ambient temperature: ≤30 °C 5. Relative humidity: ≤85% 6. Maximum power consumption: 1700 W 	<p>Determinations of pour point, cloud point, solidifying point and cold filter plugging point of petroleum products. This instrument can also be used to do these tests according to ASTM D97 and ASTM D2500.</p>	<p>ASTM D97,ASTM D2500, GB/T 510</p>
	<p>Automatic Solidifying Point & Pour Point Tester</p>	<p>SYD-510Z-2</p>	<ol style="list-style-type: none"> 1. Applicable oils: The oils with solidifying point at -30 °C ~ 50 °C 2. Temperature range: -45 °C ~ +100 °C 3. Resolution: 0.1 °C 4. Temperature sensor: Imported Pt 100, stainless steel probe. Built-in temperature calibration. 5. Heating mode: Electric heating unit. Maximum power 500 W. Controllable. 6. Slopping way: Automatic. The angle is digitally controlled. 7. Measuring mode: Spectrum measurement 8. Cooling system: Imported compressor 9. Display: 5.6 inch colored touch LCD screen. 10. Temperature calibration: Automatic and programmable. 11. Date saving: 100 groups of test results 12. Power supply: AC220V, 50Hz, maximum power consumption 1000W 13. Working ambient temperature: 10 °C ~ 40 °C。 14. Storing ambient temperature: 0 °C ~ 50 °C。 15. Dimension: 460mm×360mm×470mm 16. Net weight: 26kg 	<p>Determine the solidifying point and pour point of the petroleum products which have high pour points, solidifying points and viscosity such as dark oils and crude oils.</p>	<p>ASTM D97,GB/T3535</p>
	<p>Water Bath for Solidifying Point Tester</p>	<p>HWY-ND</p>	<ol style="list-style-type: none"> 1. Power supply: AC220V±10%, 50Hz±5% 2. Heating power: Two grades, 1000W+650W 3. Stirring motor: Power 6W, rate 1200r/min 4. Temperature range: Ambient +5 °C ~ 100 °C 5. Temperature control precision: ±0.1 °C 6. Constant temperature bath: 20L, double shell 7. Working environment: Ambient -10 °C ~ +35 °C, RH < 85% 8. Temperature sensor: Pt100,RTD 9. Maximum power consumption: 1800W 10. Dimension: 530mm×400mm×670mm (Bath is included) 	<p>Do the isothermal heat treatment to the sample at room temperature~60 °C.</p>	<p>ASTM D852,GB/T510</p>




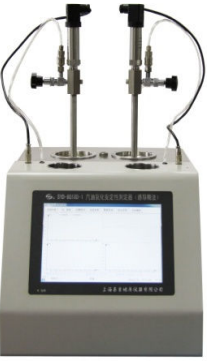
	<p>Automatic Freezing Point Tester</p>	<p>SYD-2430A</p>	<ol style="list-style-type: none"> 1. Power supply: AC 220 V±10%, 50 Hz; 2. Working bath: double dewar. 3. Freezing point range:-54℃~2℃. 4. Cold bath measurement temperature: -100℃~50℃ 5. Sample measurement temperature: -100℃~50℃ 6. Temperature controlling accuracy: ±0.1℃ 7. Refrigerator system:cascade imported refrigerator compressor 8. The power of the refrigeration: 800W 9. The heating power: 400W 10. Condensation liquids stirring: electric stirring.the power is 10W,1200r/min. 11. Sample stirring: mechanical stirring is 60 r/min. 12. Ambient temperature: ≤ (25~35)℃. 13. Relative humidity: ≤80% 14. Maximum power consumption: 2000 W 15.Dimension: 760mm×460mm×630mm 	<p>Test freezing point of engine coolants and condensation liquids.</p>	<p>ASTM D1177,ASTM D2386, SH/T0090-1991(2000)</p>
	<p>Trace Fast Freezing Point Tester</p>	<p>SYD-2430W</p>	<ol style="list-style-type: none"> 1. Temperature range:10℃~-70℃ 2.Average sample test period: (10~15) min 3.Sample volume: 12mL 4.Power supply:AC220V±10%, 50Hz 5.Total consumption:600W 6.Environment temperature: (10~30)℃ 7.Relative humidity:≤80% 8.Dimension:500m*330mm*50mm (L×W×H) 9.Net weight:31kg 	<p>Determine fast the freezing point of aviation fuels with trace sample.</p>	<p>ASTM D7153</p>
	<p>Lubricating Oils Rust Characteristics Tester</p>	<p>SYD-11143</p>	<ol style="list-style-type: none"> 1. Power supply: AC(220±10%)V, 50Hz 2. Temperature range: 0℃~100℃ 3. Temperature control accuracy: ±1℃ 4. Temperature sensor: RTD, Pt100 5. Temperature display: Digital display 6. Timing range: 1min~24hour, can be set at will 7. Time display: Digital display 8. Temperature control heating power: 600W 9. Auxiliary heating power: 1000W 10. Rotate speed of stirring motor: 1400RPM 11. Sample stir rate: (1000±50)r/min 12. Sample testing positions: Four positions 13. Ambient temperature: (Room temp.~35)℃ 14. Relative humidity: ≤85% 15. Maximum power consumption: 1800W 16. Dimension: 580mm×320mm×600mm 	<p>Evaluate rust-preventing characteristics of inhibited mineral oil, especially the rust-preventing characteristics of the turbine oil to iron parts in the presence of water.rust-preventing ability of other oils, such as hydraulic oil, circulation oil, as well as liquid, whose gravity is greater than water.</p>	<p>ASTM D665,GB/T 11143</p>




	Copper Strip Corrosion Tester	SYD-5096A	<ol style="list-style-type: none"> 1. Power supply: AC 220 V±10%, 50 Hz 2. Temperature sensor: RTD, Pt100 3. Temperature range: Ambient to 100 °C, can be set at will 4. Temperature control accuracy: ±1 °C 5. Temperature display mode: LCD 6. Heating power: 1600 W 7. Time controlling range: 1 minute~24 hours, can be set at will 8. Sample testing positions: Four positions 9. Sample quantity at one test: 4 pieces~12 pieces 10. Ambient temperature: Room temperature~35 °C 11. Relative humidity: ≤ 85% 12. Maximum power consumption: 1800 W 13. Dimension: 440mm×330mm×560mm 	Determine the corrosiveness to copper of aviation gasoline, aviation turbine fuels, automotive gasoline, tractor fuels, washing solvent, kerosene distillate, lubricating oil, and other petroleum products.	ASTM D130, GB/T 5096
	Corrosion and Rust-preventing Characteristics Tester	SYD-5096	<ol style="list-style-type: none"> 1. Power supply: AC(220±10%)V, 50Hz 2. Temperature sensor: Pt100 3. Temperature range: (0~100)°C, set at will. 4. Temperature control accuracy: ±1°C 5. Temperature display mode: LED 6. Temperature control heating power: 600W 7. Auxiliary heating power: 1000W 8. Time controlling range: 1 minute~24 hours, can be set at will 9. Time display: LED 10 Sample testing positions: Four positions 11. Ambient temperature: Room temperature~35 °C 12. Relative humidity: ≤ 85% 13. Maximum power consumption: 1800 W 	Determining corrosion and rust-preventing characteristics of petroleum products.	ASTM D130, ASTM D665, GB/T5096
	LGP Copper Strip Corrosion Tester	SYD-0232	<ol style="list-style-type: none"> 1. Power supply: AC220V±10%, 50Hz 2. Temperature range: Ambient to 100.0°C 3. Temperature control accuracy: ±0.5°C 4. Temperature sensor: RTD, Pt100 5. Heating power: Two grades, heating power of temperature control is 600W, auxiliary heating power is 1000W 6. Rotating rate of stirring motor: 1400RPM 7. Time-delay range: 0.01s ~ 99h 99min 8. Sample testing positions: 2 positions 9. Ambient temperature: -10°C~35°C 10. Relative humidity: ≤85% 11. Maximum power consumption: 1700 W 	Determine the corrosion of liquefied petroleum gas to copper strip.	SH/T0232

	<p>Carbon Residue Tester (Conradson Method)</p>	<p>SYD-268</p>	<ol style="list-style-type: none"> 1. Porcelain crucible: About 30ml. 2. Inner iron crucible: About (75±5)ml. 3. Outer iron crucible: About(190±10)ml with cover. 4. Supporter: Height: (250±10)mm Bore diameter: Φ(130±5)mm 5. Flame shield: Diameter of upper port:Φ(90±2)mm Diameter of lower port:Φ(82±2)mm 6. Round iron cover: The height of underpart is (50~53)mm. The height of cone in the middle is (25±2)mm. There is a piece of iron wire as the fire bridge on the top. The height is (50±3)mm.It is regarded as the indicator of max height. 7. Blowtorch: It adopts gas torch . 8. Dimension: Φ130mm×400mm 	<p>Determine the amount of carbon residue of petroleum products after evaporation and pyrolysis,to check coke forming property of petroleum products.</p>	<p>ASTM D189,GB/T268</p>
	<p>Carbon Residue Tester (Electric Furnace Method)</p>	<p>SYD-30011</p>	<ol style="list-style-type: none"> 1. Power supply: AC (220±10%) V, 50Hz 2. Heating mode: Electric furnace 3. Heating power: 1150W (230W×5) in total 4. Temp. Control range: (0~520)°C 5. Temp. Control accuracy: ±5°C 6. Test furnace: One furnace with four holes 7. Ambient temperature: Room temperature~ 35°C 8. Relative humidity: ≤85% 9. Maximum power consumption: 1300W 10. Dimension: 350mm×360mm×365mm 	<p>Determine the carbon residue of lubricating oils, heavy liquid fuels and other petroleum products.</p>	<p>ASTM D524,SH/T 0170</p>
	<p>Carbon Residue Tester (Micromethod)</p>	<p>SYD-17144</p>	<ol style="list-style-type: none"> 1. Power supply: AC (220±10%) V, 50Hz 2. Maximum power consumption: 1600W 3. Temperature of coke chamber: 500°C 4. Temperature control accuracy: ±2°C 5. Heating power: 1500W 6. Ambient temperature: 5°C~35°C 7. Relative humidity: ≤85% 8. Dimension: 520mm×360mm×525mm 	<p>Determine the the amount of carbon residue of petroleum products.</p>	<p>ASTM D4530,GB/T17144</p>
	<p>Demulsibility Characteristics Tester</p>	<p>SYD-7305</p>	<ol style="list-style-type: none"> 1. Power supply: AC(220±10%)V, 50Hz 2. Temperature range: (Room temp.~99.9)°C 3. Temperature control accuracy: ±1°C 4. Resolution: 0.1°C 5. Temperature display: Digital 6. Timing range: 1s~9m 59s 7. Timing set: Dial control 8. Time display: Digital 9. Stirring rate: (1500±15)r/min 10.Heating power: 1000W 11.Ambient temperature: (Room temp.~35)°C 12.Relative humidity: ≤85% 13.Maximum Power consumption: 1200W 14.Dimension: 500mm×340mm×720mm 	<p>Determine the water separability of petroleum oils and synthetic fluids.</p>	<p>ASTM D1401,GB/T7305</p>




	<p>Automatic Demulsibility Characteristics Tester</p>	<p>SYD-7305A</p>	<ol style="list-style-type: none"> 1. Power supply: AC(220±10%)V, 50Hz 2. Temperature range: (Room temp.99.9)°C 3. Temperature control accuracy: ±1°C 4. Stirring rate: (1500±15)r/min 5. Ambient temperature: (Room temp.35)°C 6. Relative humidity: ≤85% 7. Maximum power consumption: 2000W 8. Dimension: 550mm×340mm×720mm 	<p>Determine the water separability of petroleum oils and synthetic fluids.</p>	<p>ASTM D1401,GB/T7305, GB/T7605</p>
	<p>Lubricating Oils Foaming Characteristic Tester</p>	<p>SYD-12579</p>	<ol style="list-style-type: none"> 1. Power supply: AC(220±10%)V, 50Hz 2. Constant temperature heating power: 650W 3. Auxiliary heating power: 1000W 4. Cooling power: 500W 5. Air flow rate: (94±5)ml/min,adjustable 6. Temperature control range for high temperature bath: (Room temp.~99.9)°C 7. Temperature control range for low temperature bath: (5~99.9)°C 8. Temperature control accuracy: ±0.5°C 9. Timer: 5min and 10min, accurate to second 10.Timing accuracy: 0.01%+0.05s (20°C) 11.Ambient temperature: (-10~+40)°C 12.Relative humidity: ≤85% 13.Maximum power consumption: 2700W 14.Dimension: Main unit: 800mm×500mm×765mm Cooler: 400mm×450mm×300mm 	<p>Determine the foaming tendency and stability of lubricating oils.</p>	<p>ASTM D 892,GB/T12579</p>
	<p>High-temperature Foaming Characteristics Tester</p>	<p>SYD-0722-I</p>	<ol style="list-style-type: none"> 1. Power supply: AC(220±10%)V, 50Hz 2. Temperature range: Ambient to 150°C 3. Temperature control precision: ±1°C 4. Temperature control mode: Digital temperature controller 5. Air supply: Built-in air pump. It supplies air to 2 samples at a time. 6. Ambient temperature: (-10~+40)°C 7. Relative humidity: ≤85% 8. Maximum power consumption: 1600w 9. Dimension: 850mm×580mm×850mm 	<p>Determine the foaming characteristics of lubricating oils(transmission fluid and engine oil) at 150°C.</p>	<p>ASTM D6082,SH/T 0722-2002</p>




	Existing Gum Tester	SYD-8019	<ol style="list-style-type: none"> 1. Power supply:AC(220±10%)V, 50Hz, 2500W 2. Dimension of evaporation bath: φ260mm×130mm 3. Sample positions:3 positions 4. Dimension of sample positions: φ51mm×70mm 5. Working temperature:(160~165)℃ 6. Temperature control:Automatic 7. Temperature display:Digital display 8. Flow display:Displayed by a ball float type flowmeter. 9. Working pressure of air reducing valve:0.035MPa。 10.Air source:External connection, over (1000±150)mL/s 11.Dimension:590mm×480mm×340mm(Thermometer holder is not included) 	Determine the existent gum content of aviation gasoline and motor gasoline(Not suitable to determine the existent gum content of aviation turbine fuel)	ASTM D381,GB/T 8019-2008
	Existing Gum Tester	SYD-8019B	<ol style="list-style-type: none"> 1. Power supply: AC(220±10%)V,50Hz, 2.5kW 2. Test wells: 3 wells 3. Operating temperature: <ol style="list-style-type: none"> 1) Test bath temperature is (232~246)℃ and test well temperature being (229~235)℃ for steam bath. 2) Test bath temperature is (160~165)℃ and test well temperature being (150~160)℃ for air bath. 4. Temperature control: Automatic 5. Temperature display: Digital 6. Flow display: Pressure gauge shows flow rate when steam vaporizing medium is used. Ball float type flowmeter shows flow rate when air vaporizing medium is used. 7. Working pressure of air reducing valve: 0.035MPa (for air vaporizing medium) . 8. Gas source: Electrical heating steam generator for steam vaporizing medium. Air compressure for air vaporizing medium, over (1000±150)ml/s. 9. Overall dimension: 640mm×480mm×340mm (Thermometer holder is not included) 	Determine the existent gum content of aviation fuels by steam vaporizing medium,the existent gum content of aviation gasolines and motor gasolines by air vaporizing medium.	ASTM D381,GB/T 8019-2008
	Motor Fuels Existent Gum Tester	SYD-509A	<ol style="list-style-type: none"> 1. Power supply: AC 220 V±10%, 50 Hz; 2. Bath type: oil bath; 3. Oil bath specification: Φ195 mm×255 mm; 4. Oil bath cubage: 5000 ml±50 ml; 5. Heating mode: heated by an electric heater; 6. Heating power: 1000 W; 7. Temperature controlling range: room temperature ~250 ℃; 8. Temperature controlling accuracy: 150 ℃±3 ℃, 180 ℃±3 ℃, 250 ℃±5 ℃; 9. Ambient temperature: room temperature ~+35 ℃; 10. Relative humidity: ≤85%; 11. Total power consumption: less 1200 W; 12.Outline dimension:control cabinet 280 mm×260mm×380mm(L*W*H) oil bathΦ250mm×450mm(Diameter*H) 	Determine tendency of fuels (gasoline, kerosene and diesel oil) to form gum when the fuels are used in the engine.	GB/T509




	<p>Vapor Pressure Tester (Reid Method)</p>	<p>SYD-8017</p>	<ol style="list-style-type: none"> 1. Power supply: AC(220±10%)V, 50Hz 2. Heating power of bath: 1600W 3. Temperature control range of bath: (Room temp.~90)°C 4. Temperature control accuracy of bath: ±0.1°C 5. Accuracy of pressure meter: ±0.4% 6. Ambient temperature: (-10~35)°C 7. Relative humidity: ≤85% 8. Maximum power consumption: 1700W 9. Dimension: 350mm×340mm×750mm 	<p>Determination for vapor pressure of gasoline, volatile crude oil and other volatile petroleum products.</p>	<p>ASTM D323,GB/T 8017</p>
	<p>Automatic Vapor Pressure Tester (Reid Method)</p>	<p>SYD-8017A</p>	<ol style="list-style-type: none"> 1. Power supply:AC(220±10%)V, 50Hz 2. Maximum power consumption:≤1700W 3. Test bomb:Can do 3 bomb tests at the same time. 4. Water bath temperature:37.8°C 5. Temperature control accuracy:±0.1°C 6. Heating power:1600W 7. Pressure range:(0~200)kPa or (0~29)psi 8. Ambient temperature:(5~35)°C 9.Relative humidity:≤85% 10.Dimension:600mm×500mm×512mm 	<p>determination for vapor pressure of gasoline, volatile crude oil and other volatile petroleum products.cannot be used to determine the vapor pressure of LGP</p>	<p>ASTM D323,GB/T 8017</p>
	<p>Trace Fast Vapor Pressure Tester</p>	<p>SYD-0794</p>	<ol style="list-style-type: none"> 1.Measured pressure range: (7-130) kPa(resolution ratio 0.1kPa) 2.Temperature control accuracy:37.8°C±0.1°C 3.Power supply: AC220V±10%, 50Hz 4.Total power consumption:400W 5.Environment temperature:(10~30)°C 6.Relative humidity:≤85% 7.Outline dimension:420mm×220mm×325mm (L×W×H) 8.Net weight:15kg 	<p>Vapor Pressure of Petroleum Products (Mini Method)</p>	<p>ASTM D5191,SH/T 0794</p>
	<p>Automatic Gasoline Oxidation Stability Tester</p>	<p>SYD-8018D-1</p>	<ol style="list-style-type: none"> 1. Power supply: AC220V±10%, 50Hz 2. Heating power: Less 1000W, the actual heating power is automatically controlled by computer 3. Measuring range of oxygen bomb pressure transmitter: (0~1600)kPa, accuracy: ±2‰ 4. Temperature control point of metal bath: 100.0°C±1°C 5. Thermometer: Mercury-in glass thermometer, can correct coefficient as need. 6. Ambient temperature: ≤40°C 7. Relative humidity: ≤85% 8.Outline dimension: 470mm×380mm×320mm(L*W*H without test barrel) 470mm×380mm×600mm(L*W*H with test barrel) 	<p>Determine Oxidation Stability of Gasoline (Induction Period Method)</p>	<p>ASTM D525,GB/T8018-87</p>




	<p>Distillate Fuel Oils Oxidation Stability Tester</p>	<p>SYD-0175</p>	<ol style="list-style-type: none"> 1. Power supply: AC 220 V±10%, 50 Hz 2. Maximum power consumption: 2400W 3. Temperature control mode: Automatically controlled by digital temperature controller 4. Temperature control range: Ambient to 200 °C 5. Temperature control accuracy: ±0.2 °C 6. Temperature measuring component: Thermal resistance 7. Sample quantity: It can determine 6 samples at a time 8. Dimension: 700 mm×440mm×1345mm(Including the inner box) 	<p>Determine the oxidation stability of distillate fuel oils with accelerated method.</p>	<p>ASTM D2274, SH/T0175</p>
	<p>Automatic Lubricating Oils Oxidation Stability Tester</p>	<p>SYD-0193</p>	<ol style="list-style-type: none"> 1. Power supply: AC220V±10% 2. Heating tube power: 2500W 3. Range for pressure sensor: (0~1.6)MPa, accuracy: ±2‰ 4. Temperature control range for oil bath: Room temperature~200.0 °C, continuously adjustable.150.0 °C in common use. 5. Temperature control accuracy: ±0.1 °C 6. Test sample: Two-bomb design, can do two samples at one time. Convenient to do parallel test. 7. Rotation speed: (100±5)r/min 8. Included angle between oxygen bomb and water level: 30° 9. Volume of oil bath: 30L 10. Dimension: 550mm×800mm×1000mm 11. Net weight: About 45Kg 	<p>Determine the oxidation stability of steam turbine with the same composition (base oil and additive),new mineral insulating oil containing 2, 6-BHT.</p>	<p>ASTM D2272,SH/T 0193</p>
	<p>Automatic Lubricating Oils Oxidation Stability Tester</p>	<p>SYD-0193B</p>	<ol style="list-style-type: none"> 1. Bath temperature control point: 140 °C,150 °C 2. Temperature accuracy: ±0.1 °C 3. Pressure measurement range: (0~1.6) MPa 4. Pressure measurement accuracy: ±2‰ 5. Work mode:double metal bath,2 kinds of samples tested at same time or 1 type sample tested 6. Rotation speed: (100±5)r/min 7. Included angle between oxygen bomb and water level: 30° 8. Power supply: AC (220±10%) V,50Hz 9. Total power consumption: <1500W 10. Environment temperature: -10 °C ~40 °C 11. Relative humidity: ≤85% 12. Heating tube power: 2500W 13. Dimension: 500mm×370mm×540mm(L*W*H) 14. Net weight: About 25Kg 	<p>Determine the oxidation stability of steam turbine with the same composition (base oil and additive) ,new mineral insulating oil containing 2, 6-BHT.</p>	<p>ASTM D2272-2009, SH/T 0193</p>



	<p>Lubricating Oil Evaporating Loss Tester (Noack method A)</p>	<p>SYD-0059A</p>	<ol style="list-style-type: none"> 1. Temperature control range:room temperature to 250 °C 2. Temperature control accuracy: ±0.5 °C 3. Temperature control method: automatic 4. Heating way:metal bath heating 5. Heating power: 1200W 6. Suction way:vaccum pump 7. Environment temperature: 10~35 °C 8. Relative humidity: ≤85% 9. Power supply: AC (220±10%) V,50Hz 10. Total consumption:less 1600W 11. Outline dimension: main unit(heating control part) 320mm×280mm×500mm auxiliary machinery(stable pressure suction section) 405mm×320mm×450mm (L*W*H,without vacuum pump) 	<p>Determine lubricating oil(especially internal combustion engine oil) and the evaporation loss of lubricating base oil at 250 °C.</p>	<p>ASTM D5800,NB/SH/T 0059-2010</p>
	<p>Liquid Petroleum Products Hydrocarbon Tester</p>	<p>SYD-11132</p>	<ol style="list-style-type: none"> 1. Power supply: AC220V±5%, 50Hz 2. Pressure regulating range of reducing valve: (0~400)kPa 3. Electric agitator: independently controlled for each way 4. Ultraviolet light source pipe: 1220mm in length, wavelength is 365mm±5nm 5. Illuminating lamp: 1220mm in length, power is 40W 6. Air supply: Nitrogen cylinder (or air compressor, compressed air bottle) 7. Ambient temperature: (5~35)°C 8. Relative humidity: ≤85% 9. Dimension: 350mm×400mm×1770mm 10.Maximum power consumption: 600W 	<p>Determining percentage of aromatic hydrocarbon,olefin and saturated hydrocarbon in petroleum fraction.</p>	<p>ASTM D 1319,GB/T 11132</p>
	<p>Penetrometer (With Constant Temperature Bath)</p>	<p>SYD-2801C</p>	<ol style="list-style-type: none"> 1.Measurement range: (0~600)penetration scale 2.Timing controller: 5s,8s,10s,12s,30 sand 60s,bias within±0.1s 3.Resolution: 0.01mm 4.Penetration accuracy: ±1penetration 5.Heater power: 200W; 6.Temperature control accuracy: 25±0.1 °C (Note:The ambient temperature shall not exceed 20 °C) 7.Temperature control mode: High accuracy digital temperature controller 8.Constant temperature bath: Hard glass bath 9.Stirring:automatically stirred by a magnetic stirrer 10.Standard needle: 2.5±0.05g 11.Standard cone: 102.5±0.05g 12.Needle holder:It can be adjusted roughly and finely.Convenient toad just and exact to aim the sample. 13. Others: Equipped with a cold light source and a magnifier; Convenient for operation and observation. 	<p>Determine the needle penetration of bituminous mixture and cone penetration of lubricating grease (or petrolatum),solid particle,powder, colloid an draw-food materials such as cheese,glycine,butter,cream and leavening.</p>	<p>ASTM D5,ASTM D217,GB/T 4509-2010,GB/T269</p>




	<p>Penetrometer (For wax)</p>	<p>SYD-2801G</p>	<ol style="list-style-type: none"> 1. Measurement range: (0~600) penetration 2. Timing control: 5s, 8s, 10s, 12s, 30s, 60s can be selected. The bias is within $\pm 0.1s$. 3. Resolution: 0.01mm 4. Penetration precision: ± 1 penetration 5. Heating power: 200W 6. Temperature control accuracy: $(25\pm 0.1)^{\circ}C$ (Note: ambient temperature shall not over $20^{\circ}C$) 7. Temperature control mode: High accuracy digital temperature controller 8. Constant temperature bath: Hard glass bath 9. Stirring: Automatically stirred by magnetic stirrer 10. Standard needle: $(2.5\pm 0.05)g$ 11. Needle holder: It can be adjusted roughly and finely without measurable friction to make the needle aim the sample conveniently. 12. Power supply: AC$(220\pm 10\%)V$, 50Hz, maximum power $\leq 300W$ 13. Dimension: 280mm\times350mm\times700mm 14. Others: Equipped with cold light source. Easy to operate 	<p>Determine solid fine particle, powder, colloid and raw-food materials such as cheese, glycine, butter, cream and leavening.</p>	<p>ASTM D1321,GB/T 4985-2010</p>
	<p>Lubricating Grease Dropping Point Tester (Oil bath)</p>	<p>SYD-4929A</p>	<ol style="list-style-type: none"> 1. Power supply: AC 220 V$\pm 10\%$, 50 Hz 2. Oil bath: 600 ml beaker. 3. Grease cup: Made of chrome plated brass. Its inner diameter is about 9.92 mm and the diameter of orifice for dropping oil is 2.8 mm. The height of the cup is about 12 mm. 4. Test tube: A tube made of heat-resistant glass with rim. Its inner diameter is 11.1 mm to 12.7 mm. There are three indentations at about 19 mm from the bottom, equally spaced on the circumference. These indentations are used for supporting the grease cup. 5. Thermometer: $-5^{\circ}C \sim 300^{\circ}C$, scale value is $1^{\circ}C$. Its total length is 390 mm and the depth immersed is about 76 mm. 6. Heater: Tubular. Power 800 W. 7. Stirring motor: Rotating speed 60 RPM 8. Ambient temperature: $-10^{\circ}C \sim +40^{\circ}C$ 9. Relative humidity: $\leq 85\%$ 10. Maximum power consumption: 900 W 11. Dimension: 350mm\times180mm\times410mm 	<p>Determination of Dropping Point of Lubricating Grease</p>	<p>ASTM D566,GB/T 4929</p>
	<p>Petroleum Products Sulfur Content Tester(Lamp Method)</p>	<p>SYD-380B</p>	<ol style="list-style-type: none"> 1. Power supply: AC 220 V $\pm 10\%$, 50 Hz 2. Test sample quantity: Five independent groups. 3. Electromagnet pump: Five groups of main pumps, one group of auxiliary pump(stir pump). 4. Vacuum pumping adjustment: It can be continuously adjusted by a potentiometer for each group. 5. Lamp adjustment: It can be adjusted up and down. The adjustment range is not less than 15 mm 6. Test tube holder: Each holder can be adjusted independently. Its adjustment range is not less than 20 mm. 7. Ambient temperature: $-10^{\circ}C \sim 40^{\circ}C$ 8. Relative temperature: $\leq 85\%$ 9. Maximum power consumption: 150 W 10. Dimension: 380mm\times320mm\times600mm (including test vessels) 	<p>Determine the sulfur content in light oils(such as gasoline,kerosene) which the Reid vapor pressure is not higher than 600mmHg</p>	<p>ASTM D1266, GB/T380</p>




	Dark Petroleum Products Sulfur Content Tester	SYD-387	<ol style="list-style-type: none"> 1. Power supply: AC 20V±10%, 50Hz; 2. Oven type and quantity: Horizontal type; parallel double tubular oven; 3. Chamber diameter of oven: Φ22mm; 4. Heating power: 1400 W×2; 5. Max temperature of oven: 950 °C; 6. Movement distance of oven: not less than 135 mm; 7. Air flow rate: not less than 150 L/h; 8. Max preset time: 99 minutes 59 seconds; 	Determine the sulfur content in dark petroleum products which the sulfur content being more than 0.1% (m/m).	GB/T387
	X-ray Fluorescence Sulfur Tester	SYD-17040	<ol style="list-style-type: none"> (1) Measuring range: 20ppm to 5% (2) Repeatability (r): <0.02894 (X+0.1691) (3) Reproducibility (R): <0.1215(X+0.5555) (4) Detection limit: 7 ppm (5) Oil sample quantity: 2.5 ml (it is equal to sample depth of 4.5 mm) (6) Measurement time: it can preset 60, 120, 240, 300, and 600 s at random (7) It can make measurement automatically for single sample. Repeat times: can set 2, 3, 5, 10, and 50 at random; it will show average value and standard deviation at end of measurement. (8) Calibration curve numbers: it can save 9 calibration curves. 5 pieces of them are unary linear equation and 4 pieces of them are unary quadratic equation. (9) Working condition: Ambient temperature: 5~40 °C Relative humidity: ≤85% (30 °C) (10) Power supply: AC 220V±20V, 50 Hz; Rated power: 30 W (11) Dimension and weight: 468mm×368mm×136mm; 13 kg 	Determine sulfur content during petroleum or petrochemical production process.	ASTM D4294,GB/T 17040, GB/T11140
	Petroleum Products Water Soluble Acid & Alkali Tester	SYD-259	<ol style="list-style-type: none"> 1. Power supply: AC 220 V±10%, 50 Hz; 2. Heating power: 100 W ~1000 W continuously adjustable; 3. Acidity meter: (1) Full scale: 0~14.00 pH; (2) Accuracy: ±0.01 pH; 4. Separatory funnel: 250 ml; 5. Graduated flask: 100 ml, 50 ml; 6. Test tube: Φ18 mm×100 mm; 7. Conical flask: 100 ml; 8. Ambient temperature: -10 °C ~+35 °C; 9. Relative humidity: ≤85%; 10. Total power consumption: not more than 1200 W; 	Determine the water soluble acid & alkali in the liquid petroleum products, additives, lubricant greases, paraffin and waxy components, the pH value of extracted solvent using acidity meter to ascertain whether there exists the soluble acid and alkali in the extracted solvent.	GB/T259




	<p>Petroleum Products and Additive Mechanical Impurity Tester</p>	<p>SYD-511B</p>	<ol style="list-style-type: none"> 1. Power supply: AC 220V±10%, 50 Hz 2. Heating power for water bath: 1000 W 3. Temperature control range for water bath: Room temperature~90 °C, adjustable 4. Bath temperature display: Digitally displayed by LED 5. Temperature control accuracy for water bath: ±1 °C 6. Temperature control range for funnel: Room temperature~90 °C, adjustable 7. Funnel temperature display: Digitally displayed by LED 8. Temperature control accuracy for funnel: ±2 °C 9. Size: (1) Control case: 390 mm× 260 mm× 590 mm (2) Water bath: 390 mm× 290 mm× 370 mm 10. Ambient temperature: ≤35 °C 11. Relative humidity: ≤85% 12. Maximum power consumption: 1200 W 	<p>Determine mechanical impurity in hydrocarbons, heavy oils, lubricating oils, and additives.</p>	<p>ASTM D4807,GB/T511</p>
	<p>Ash Content Tester</p>	<p>SYD-508</p>	<ol style="list-style-type: none"> 1. Box-type heating furnace <ol style="list-style-type: none"> (1) Power supply: AC220V±10%, 50 Hz (2) Rated power: 2.5 kW (3) Rated temperature: 1000 °C (4) Temperature rising time for empty furnace: ≤50 min (5) Power consumption for empty furnace: ≤800W (6) Heat savings: ≤5kW.h (7) Furnace temperature uniformity: ≤15°C (8) Thermocouple: WRN-010 (9) Size of furnace chamber: 200mm×120mm×80mm (10)Dimension: 575mm×3850mm×480mm 2. Temperature control stand <ol style="list-style-type: none"> (1) Rated controllable power: 5000W (2) Power supply: AC(220±10%)V, 50Hz (3) Maximum control temperature: 1200 °C (4) Temperature controller: DTW2001 (5) Thermocouple: WRN-010 (6) Dimension: 500mm×300mm×235mm 3. Electric heating plate <ol style="list-style-type: none"> (1)Rated power: 1500W (2) Power supply: AC(220±10%)V, 50Hz (3) Rated temperature: 400 °C (4) Heating power: (1~6) grades, continuously adjustable. (5) Diameter of heating plate: Φ85mm (6) Dimension: 280mm×250mm×90mm 	<p>Determine ash content in the petroleum products containing ash-forming additives (including additives containing certain phosphorus compounds), lubricating oils containing lead, and used engine crankcase oils.</p>	<p>ASTM D482,GB/T508</p>
	<p>Petroleum Products Color Tester</p>	<p>SYD-0168</p>	<p>Standard color dial, observation lens,light source and color comparing tube., 220 V, 100 W, with temperature of 2750±50 K grinding milk white light bulb, 26 pieces of Φ14 light holes.The color comparing tube is Φ32 mm, 120~130 mm high non-colorful flat bottom glass tube.The observation lens is composed of concave mirror and separated bar.</p>	<p>Determine color of various lubricating oils and other petroleum products</p>	<p>ASTM D1500,H/T 0168-92</p>

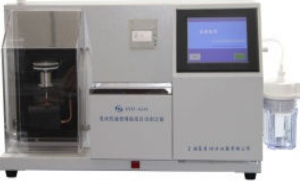


	<p>Petroleum Products Aniline Point Tester</p>	<p>SYD-262</p>	<ol style="list-style-type: none"> 1. Power supply: AC(220±10%)V, 50Hz 2. Temperature range: Ambient to 150℃ 3. Stirring speed: (0~1200) RPM 4. Heating power: 25W 5. Dimension: 360mm×250mm×545mm 	<p>Aniline Point and Mixed Aniline Point of Petroleum Products and Hydrocarbon Solvents.</p>	<p>ASTM D611,GB/T262 ISO 2977</p>
	<p>Crude Oil Water Content Tester</p>	<p>SYD-8929A</p>	<ol style="list-style-type: none"> 1. Power supply:AC(220±10%)V, 50Hz 2. Heater:heating mantle cap, 500W×2, continuous adjustment. 3. Distillation flask:1000 ml 4. Receiver:5ml, graduation is 0.05 ml。 5. Condenser:400mm±5mm。 6. Ambient temperature: -10℃~+35℃。 7. Relative humidity:≤85%。 8. Dimension:425mm×330mm×150mm (The test vessels are not included) 425mm×330mm×1180mm (The test vessels are included) 	<p>Determine the water in crude oils.</p>	<p>ASTM D4006,GB/T8929</p>
	<p>Naphthalene Crystallization Point Tester</p>	<p>SYD-3069</p>	<ol style="list-style-type: none"> 1. Power supply: AC (220±10%) V、50Hz 2. Heating settings:electrical heater, power consumption 600W 3. Temperature control range:ambient~100℃ 4. Temperature control precision:±1℃ 5. Stirring motor:power consumption 6W,stirring speed 1200r/min 6. Vibration meter:electrical vibration,swing 100mm,wave frequency (60~70) time/min 7. Environment temperature:ambient~35℃ 8. RH ≤85% 9. Dimension: Water bath: Φ820mm×470mm (diameter×Height) Vibration meter: 260mm×155mm×155mm (L×W×H) Control case: 270mm×118mm×135mm (L×W×H) 	<p>Determine the crystallization point of refined naphthalene which obtained via washing and rectification of naphthalene containing fraction of high temperature coal tar and the crystallization point of crude naphthalene.</p>	<p>GB/T3069.2</p>

	<p>Ultraviolet Fluorescence Sulfur-in-Oil Analyzer</p>	<p>SYD-0689</p>	<ol style="list-style-type: none"> 1. Standard configuration: Printer,Computer,SYD 0689,Liquid injector 2. Other optional parts: Solid sample injector, gas sample injector 3. Sample types: Solid, gas and liquid 4. Determination method: Ultraviolet fluorescence method (S) 5. Sample injection quantity: Solid: 1-20mg; Liquid: 5-20μL; Gas: 1-5mL 6. Measuring range: 5ppm ~5000ppm (High concentration should be diluted, Low concentration gas sample is up to 0.1ppm) 7. Measuring range Concentration values (ppm):5,50,100,5000 Injection quantity (μL) :10 RSD(%):10,5,3,3 8. Temperature range: Ambient to 1150$^{\circ}$C 9. Temperature control precision: \pm1$^{\circ}$C 10.Air supply requirements: High purity argon: above 99.9% ; High purity oxygen: above 99.9% 11.Power supply: AC220V\pm22V, 50Hz\pm0.5Hz, 1500 W 12.Dimension: Host: 305(W)\times460(D)\times440(H)mm; Temp controller: 550(W)\times460(D)\times440(H)mm 13.Net weight: Host::20kg, Temp controller:40kg 	<p>Determine the total sulfur content by ultraviolet fluorescence method</p>	<p>ASTM D 5453 -2006 SH/T 0689—2000</p>															
	<p>Ultraviolet Fluorescence Sulfur,Nitrogen-in-Oil Analyzer</p>	<p>SYD-0689N</p>	<ol style="list-style-type: none"> 1. Determination method: Ultraviolet fluorescence method to detect sulfur,chemiluminescence to detect nitrogen 2. Sample types:Liquid,solid and gas 3. Sample injection quantity: Solid: 1-20mg; Liquid: 5-20μL; Gas: 1-25mL 4. Measurement range: (0.2~8000)mg/L (High concentration can be diluted) 5. Measurement accuracy: Concentration values (ppm) Injection quantity (μL) RSD(%) <table border="1" data-bbox="920 1081 1736 1270"> <tbody> <tr> <td>0.2</td> <td>20</td> <td>25</td> </tr> <tr> <td>5</td> <td>10</td> <td>10</td> </tr> <tr> <td>50</td> <td>10</td> <td>5</td> </tr> <tr> <td>100</td> <td>10</td> <td>3</td> </tr> <tr> <td>5000</td> <td>10</td> <td>3</td> </tr> </tbody> </table> 6. Temperature control range: Ambient to 1050 $^{\circ}$C,accuracy: \pm3$^{\circ}$C 7. Air supply requirements: High purity argon: above 99.995% ; High purity oxygen: above 99.9% Note:The water content of the gas must be less than 5ppm 8. Environment temperature:Less 30 $^{\circ}$C(The laboratory with air condition) 9. Relative humidity: \leq85% 10. Power supply: AC220V\pm22V, 50Hz\pm0.5Hz, more than 2000 W 11. Dimension: Host: 305(L)\times460(W)\times440(H)mm; Temp controller: 550(L)\times460(W)\times440(H)mm,No computer 12. Net weight: Host::15kg, Temp controller:30kg 	0.2	20	25	5	10	10	50	10	5	100	10	3	5000	10	3	<p>Determination of total sulfur in light hydrocarbons,motor fuels and oils by ultraviolet fluorescence</p>	<p>ASTM D5453 -2006,SH/T 0689—2000,SH/T 0657—2007</p>
0.2	20	25																		
5	10	10																		
50	10	5																		
100	10	3																		
5000	10	3																		

	<p>Mercaptan Sulfur Analyzer</p>	<p>SYD-1792A</p>	<ol style="list-style-type: none"> Potential measuring range: (0~±1999.5) Mv Intrinsic error: 0.1%±0.5mV Input impedance: $R_i \geq 1 \times 10^{12} \Omega$ Burette capacity: 10mL Burette accuracy: ±0.1% (F•S) Titrating time: (60±20) s (F•S) Mercaptan sulfur measuring range: (3~100) µg/g (ppm) Precision: $r=0.00007+0.027X_1$ (X1 is the mean value of two test results., % (m/m)) Power supply: AC 220V±10V; 50Hz±0.5Hz; Power consumption 300W Ambient temperature: 10℃~40℃ Relative humidity: ≤85% Dimension: 260 mm×380 mm×400 mm (PC is not included) Net weight: 8kg (PC is not included) 	<p>Determine mercaptan sulfur in petroleum products under the computer</p>	<p>ASTM D3227, GB/T 1792-1988</p>
	<p>Basic Nitrogen Analyzer(Potentiometric Titration)</p>	<p>SYD-0162</p>	<ol style="list-style-type: none"> Potential measurement range: (0~±1999.5) mV Electronic unit basic error: 0.1%±0.5mV Input impedance: $R_i \geq 1 \times 10^{12} \Omega$ Burette volume: 10ml Burette accuracy: ±0.1% (F•S) Titration time: (60±20) S (F•S) ; Bias: ≤5% compared with standard SH/T0162 Precision: Correspond with standard SH/T0162 Power supply: AC (220±10) V, (50±0.5) Hz, 300W Ambient temperature: 10℃~40℃ Relative humidity: ≤85% Dimension: 260mm×380mm×400mm (PC is not included) Net weight: 8kg(PC is not included) 	<p>Determine the basic nitrogen in petroleum products under the control of the computer.</p>	<p>SH/T0162-92 ,SH/T 0413-1992</p>
	<p>Coulometric Salt Content Analyzer</p>	<p>SYD-0536</p>	<ol style="list-style-type: none"> Titration method: Coulometric titration End point detection: Automatically judge the end point by the indication—reference electrode Display unit: ngNaCl/ul Sensitivity: 0.1ngNaCl/ul Measuring range: (0.2~10000)ngNaCl/ul Capacity of titration cell: 145ml Testing time: Less than 5mins per sample (The time use for sample processing is not included.) Ambient temperature: (10~40) ℃ Relative humidity: ≤85% Power supply: AC 220V±10V, 50Hz±0.5Hz Maximum power consumption: 300W Dimension: 350mm×280mm×178mm (PC and printer are not included) Net weight: 8kg (PC and printer are not included) 	<p>Determine salt content in crude petroleum ,petroleum products, heavy oil , residual oil , and various industrial water or drainage water,determine Inorganic chloride in above samples.</p>	<p>ASTM D3230-89,SY/T0536-2008</p>

	Sulfur and Chlorine Analyzer	SYD-0253	<ol style="list-style-type: none"> Bias voltage range: 0 ~ 500mv Measuring range: S: 0.05 ~ 10000 ng/μl Cl: 0.2 ~ 10000 ng/μl Air source requirements: Industrial nitrogen(99.9%), industrial oxygen(99.9%) Measuring accuracy: <table border="1" data-bbox="905 199 1745 388"> <thead> <tr> <th>Sample concentration (ng/μl)</th> <th>Inject Volume(μl)</th> <th>RSD (%)</th> </tr> </thead> <tbody> <tr> <td>0.2</td> <td>10</td> <td>30</td> </tr> <tr> <td>1.0</td> <td>10</td> <td>10</td> </tr> <tr> <td>100</td> <td>5</td> <td>3</td> </tr> <tr> <td>1000</td> <td>5</td> <td>2</td> </tr> </tbody> </table> Temp control: Ambient to 1000°C, ±1°C Power supply: AC 220V±22V, 50HZ±0.5HZ; power consumption 3.5KW Dimension: 700mm×480mm×540mm (PC is not included) Net weight: 46Kg 	Sample concentration (ng/μl)	Inject Volume(μl)	RSD (%)	0.2	10	30	1.0	10	10	100	5	3	1000	5	2	Determine the trace sulfur, chlorine of petro-chemical products.	ASTM D3120,ASTM D3246, ASTM D5808-03,ASTM D5808-09a
Sample concentration (ng/μl)	Inject Volume(μl)	RSD (%)																		
0.2	10	30																		
1.0	10	10																		
100	5	3																		
1000	5	2																		
	Coulometric Sulfur Analyzer	SYD-0253A	<ol style="list-style-type: none"> Current: The maximum is ±2mA Output voltage of amplifier: The maximum is ±30V Bias voltage range: (0~500) mv, adjustable Measuring range: 0.1mg/L~10000mg/L(dilutable for high concentration) Repeatability error: (1) ≤50% when sample concentration <1.0mg/L (2) ≤10% when 1.0mg/L≤sample concentration ≤10mg/L (3) ≤5% when sample concentration >10mg/L Temperature control: Ambient to 1000°C, ±1°C Power supply: AC 220V±10V, 50Hz±0.5Hz Maximum power consumption: 3000W Ambient temperature: (10~40) °C。 Relative humidity: ≤85% Dimension: 700 mm×480 mm×540mm(PC is not included) Net weight: 46kg(PC is not included) 	Determine the trace sulfur of petro-chemical products.	ASTM D3120,ASTM D3246															
	Coulometric Chlorine Analyzer	SYD-0253B	<ol style="list-style-type: none"> Current: The maximum is ±2mA Output voltage of amplifier: The maximum is ±30V Bias voltage range: (0~500) mv, adjustable Measuring range: 0.3mg/L~10000mg/L(dilutable for high concentration) Repeatability error: (1) ≤50% when sample concentration <1.0mg/L (2) ≤10% when 1.0mg/L≤sample concentration ≤10mg/L (3) ≤5% when sample concentration >10mg/L Temperature control: Ambient to 1000°C, ±1°C Power supply: AC 220V±10V, 50Hz±0.5Hz Maximum power consumption: 3000W Ambient temperature: (10~40) °C。 Relative humidity: ≤85% Dimension: 700 mm×480 mm×540mm(PC is not included) Net weight: 46kg(PC is not included) 	Determine the trace chlorine of petro-chemical products.	STM D5808-09A, ASTM D5194-06															

	<p>Petroleum Products Acid Number and Acidity Tester</p>	<p>SYD-264</p>	<ol style="list-style-type: none"> 1. Power supply: AC 220 V±10%, 50 Hz; 2. Power range of heater: 100 W~1000 W, continuously adjustable. 3. Precision of titration tube: scale division is 0.02 ml 4. Ambient temperature: ≤35 °C 5. Relative humidity: ≤85% 6. Maximum Power consumption: 1200 W 7.Dimension: 270mm×160mm×600mm 	<p>Determine acidity of gasoline, kerosene and diesel oil without any ethyl liquids, and the acid number of petroleum products.</p>	<p>ASTM D664,GB/T264</p>																		
	<p>Total Acid Number Tester (Potentiometric Titration)</p>	<p>SYD-264B</p>	<ol style="list-style-type: none"> 1. Acid number measurement range: ≥0.05 mgKOH/g 2. Potential measurement range: (0~1800.0) mV 3. Burette volume: 10mL 4. Minimum titration volume: 0.001mL 5. Burette precision: ±0.1%F•S 6. Precision: Fit or above the relative standards 7. Power supply: AC(220±11)V ,50±1Hz 8. Environment temperature: 5°C~35°C 9. Relative humidity: Less 80% 10. Outline dimension: About 350mm×280mm×178mm (L×W×H、Without PC) 11. Net weight: Main unit 14Kg 	<p>Detect the acid value of transformer oil, turbine oil, anti oil, diesel, gasoline and other petroleum products</p>	<p>ASTM D664-2011,GB/T264</p>																		
	<p>Nitrogen Chemiluminescence Analyzer</p>	<p>SYD-0657</p>	<ol style="list-style-type: none"> 1. Sample types: Solid, gas and liquid 2. Determination method: Chemiluminescence (N) 3. Sample injection quantity: solid: 1-20mg; Liquid: 5-20μL; Gas: 1-5mL 4. Measuring range: 0.1 ~50000mg/L (High concentration should be diluted) 5. Measuring time: about 2 min 6. Measuring accuracy: <table border="1" data-bbox="899 1228 2027 1449"> <thead> <tr> <th>Concentration values (ppm)</th> <th>Injection quantity (μL)</th> <th>RSD(%)</th> </tr> </thead> <tbody> <tr> <td>0.2</td> <td>20</td> <td>25</td> </tr> <tr> <td>5</td> <td>10</td> <td>10</td> </tr> <tr> <td>50</td> <td>10</td> <td>5</td> </tr> <tr> <td>100</td> <td>10</td> <td>3</td> </tr> <tr> <td>5000</td> <td>10</td> <td>3</td> </tr> </tbody> </table> 7. Temperature range: Ambient to 1150°C 8. Temperature control precision: ±1°C 9. Air supply requirement: High purity argon: above 99.9% , High purity oxygen: above 99.9% 10. Power supply: AC220V±22V, 50Hz±0.5Hz, 1500 W 11. Dimension: Host: 305(W)×460(D)×440(H)mm Temp controller: 550(W)×460(D)×440(H)mm 12. Net weight: Host:20kg; Temp controller:40kg 	Concentration values (ppm)	Injection quantity (μL)	RSD(%)	0.2	20	25	5	10	10	50	10	5	100	10	3	5000	10	3	<p>Trace nitrogen in liquid petroleum hydrocarbons by syringe/inlet oxidative combustion and chemiluminescence detection.</p>	<p>ASTM D4629—2010,ASTM D5762 -2010,ASTM D6069-2001</p>
Concentration values (ppm)	Injection quantity (μL)	RSD(%)																					
0.2	20	25																					
5	10	10																					
50	10	5																					
100	10	3																					
5000	10	3																					

	Automatic Engine Oils Apparent Viscosity Tester	SYD-6538	<ol style="list-style-type: none"> 1. Cold bath temperature control range:Ambiant ~ -60℃ 2. Cold bath temperature control accuracy: ±0.5℃ 3. Stator temperature control accuracy: ±0.05℃ 4. Viscosity measurement range: 1500mPa•s ~ 27000mPa•s 5. Environment temperature: 10℃ ~ 40℃ 6. Relative humidity: ≤85% 7. Power supply: AC(220±10%)V,50Hz 8. Total power consumption:Less 2500W 9. Dimension: 745 (with the waste liquid collection bottle 875) mm×520mm×480mm(L*W*H) 	Determination of apparent viscosity of engine oils using the cold-cranking simulator (CCS method)	ASTM D5293,GB/T 6538
	Automatic Engine Oils Apparent Viscosity Tester	SYD-6538A	<ol style="list-style-type: none"> 1. Cold bath temperature control range:Ambiant ~ -60℃ 2. Cold bath temperature control accuracy: ±0.5℃ 3. Stator temperature control accuracy: ±0.05℃ 4. Viscosity measurement range: 500mPa•s ~ 45000mPa•s 5. Environment temperature: 10℃ ~ 40℃ 6. Relative humidity: ≤85% 7. Power supply: AC(220±10%)V,50Hz 8. Total power consumption:Less 2500W 9. Dimension: 745 (with the waste liquid collection bottle 875) mm×480mm×485mm(L*W*H) 	Determination of apparent viscosity of engine oils using the cold-cranking simulator (CCS method)	ASTM D5293,GB/T 6538
	Octane Number & Cetane Number Tester(Desktop)	SYD-QX-G	<ol style="list-style-type: none"> 1. Measurement range: (1)Aviation gasoline: 86.0~105.0/MON (2) Gasoline for motor vehicles:National standard: 65.0~110.0/RON National-V standard: 70~115.0/RON Blended gasoline: 75.0~120.0/RON Light gasoline:50.0~85.0 /MON Isomerized gasoline: 85.0~120.0/RON Arene gasoline:90.0~120.0/RON Ethanol: E93: 92.0~95.0/RON E97: 95.0~99.0/RON Judgement: 60.0~120.0/RON (3) Automobile diesel fuels:25~75/CN (cetane number) ; 20~80/CI (cetane index) 2. Accuracy: Aviation gasoline: ≤± 1.5/MON Gasoline for motor vehicles: ≤± 1.5/RON ≤± 1.5/MON Automobile diesel fuels: ≤±2.6/CN ≤±2.6/CI Regression sample retest: ≤± 0.5/RON ≤±0.5/MON Regression sample measurement: ≤±1.5/RON ≤± 1.5/MON Calibration accuracy: ≤±0.2/RON ≤±0.2/MON 3.Precision(confidence level 95%): Reproducibility: ≤±0.5/RON Repeatability: ≤±0.2/RON 4.Minimum scale: 0.1/RON 0.1/MON 0.1/CI 5.Response time: 1s 6.Test result: LCD display, it can store and print 7.Power supply: AC (220±10%) V, (50±1) Hz 8.Working environment: 10℃~35℃; relative humidity: ≤85% 9.Dimension: 330 mm×240 mm×170 mm 	Determine the octane number number of aviation gasoline, motor gasoline, blended gasoline, ethanol gasoline, and determine the cetane number of automobile diesel fuels.	GB/T5487,ASTM D2699-92



Octane Number & Cetane Number Tester)

SYD-QX-D

1. Working environment:
 Temperature rang: 10℃~35℃
 Relative humidity: <85%
 2. Test range:
 (1) Gasoline for motor vehicles:
 National standard: 70.0~110.0/RON, blended gasoline: 75.0~110.0/RON
 Ethanol: E93: 92.0~95.0/RON, Isomerized gasoline: 87.0~108.0/RON
 Methanol: M93 85~100/RON, M97 92~110/RON
 Methanol content: (M5~M25%), E97: 95.0~99.0/RON
 (2) Raw material: light gasoline: 50.0~80.0/MON, Arene gasoline: 95.0~120.0/RON
 (3) Aviation gasoline: 85.0~105.0/MON
 (4) Diesel fuel: 25~75/CN (cetane number), 20~80/CI (cetane index)
 3. Accuracy:
 Aviation gasoline: $\leq \pm 1.5$ /MON
 Gasoline for motor vehicles: $\leq \pm 1.5$ /RON $\leq \pm 1.5$ /MON
 Automobile diesel fuels: $\leq \pm 2.6$ /CN $\leq \pm 2.6$ /CI
 Regression sample retest: $\leq \pm 0.5$ /RON: $\leq \pm 0.5$ /MON
 Regression sample measurement: $\leq \pm 1.5$ /RON $\leq \pm 1.5$ /MON
 Calibration accuracy: $\leq \pm 0.2$ /RON
 4. Precision (confidence level 95%)
 Reproducibility: $\leq \pm 0.5$ /RON Repeatability: $\leq \pm 0.2$ /RON
 5. Minimum scale: 0.1/RON 0.1/MON
 6. Response time: 1s
 7. Test result: LCD display, it can store and print (External printer)
 8. Dimension: 210×100×40 mm
 9. Power supply: Charger: AC220V±10V/4.2V; One charge can be used about a week.

Determine the octane number and cetane number of aviation gasoline, gasoline for motor vehicles, blended gasoline, ethanol gasoline, Methanol gasoline, automobile diesel fuels.

ASTM D2699-86, GB/T 386



Petroleum Heavy Oil Family Four-Component Automatic Tester

SYD-0509Z

1. Quantity of adsorption column: 4 pieces elution at the same time, 4 pieces glass adsorption column, each channel independent control.
 2. Temperature control accuracy: 50±1℃
 3. Flow rate of elution solvent: 1mL~15mL random set
 4. Heating power: 1000W
 5. Control method: Laptop
 6. Power supply: AC (220±10%) V, (50±1) Hz
 7. Total consumption: 2000W
 8. Work environment: Ambient temperature 5℃~35℃, relative humidity ≤85%
 9. Outline dimension: 600×700×1430(mm) (L×W×H)
 10. Net weight: 50kg

Analyze in heavy oil four-component, petroleum fraction saturated hydrocarbon and arene separation method (Chromatograph separation method), crude oil wax content, raw petroleum wax, colloid, asphaltene content.

NB SH/T 0509, SY/T 0537, SY/T 7550, TG E20-T 0618, SH/T 0266, RIPP10-90



Adsorption Column Automatic Loading and Cleaning Tester

SYD-0509Q

1. Quantity of adsorption column: 4 pieces
 2. Loading sample adsorption column quantity: 4 pieces
 3. Hanging adsorption column quantity: 8 pieces
 4. Control method: Color LCD touch screen
 5. Power supply: AC (220±10%) V, (50±1) Hz
 6. Total consumption: 700W
 7. Work environment: Ambient temperature 5℃~35℃, relative humidity ≤85%
 9. Outline dimension: 540×900×1530 (mm) (L×W×H)
 10. Net weight: 50kg

Fill the aluminium oxide of adsorption column evenly and densely, clean the adsorption column automatically after the test.



Solvent Automatic
Evaporation and
Recovery Tester

SYD-0509H

1. Evaporation bath:1 group
- 2.Receiving flask quantity of each group evaporation bath:12 pieces
- 3.Heating power:1500W
- 4.Solvent recovery vessel:2L
- 5.Evaporating temperature:Ambient~140℃,adjustable continuously
- 6.Condensing temperature: 0~30) ℃,set at random
- 7.Refrigerating method:Compressor
- 8.Refrigerating power: 375W
- 9.Operation method:Color LCD touch creen
- 10.Power supply:AC (220±10%) V, (50±1) Hz
- 11.Total consumption:2400W
- 12.Work environment:Ambient temperature 5℃~35℃, relative humidity≤85%
- 13,Outline dimension:540×670×1250 (mm)(L×W×H)
- 14,Net weight:70kg

Set the temperature of
evaporation at random
according to the
requirement,also recyle the
evaporating solvent in the
process of evaporation